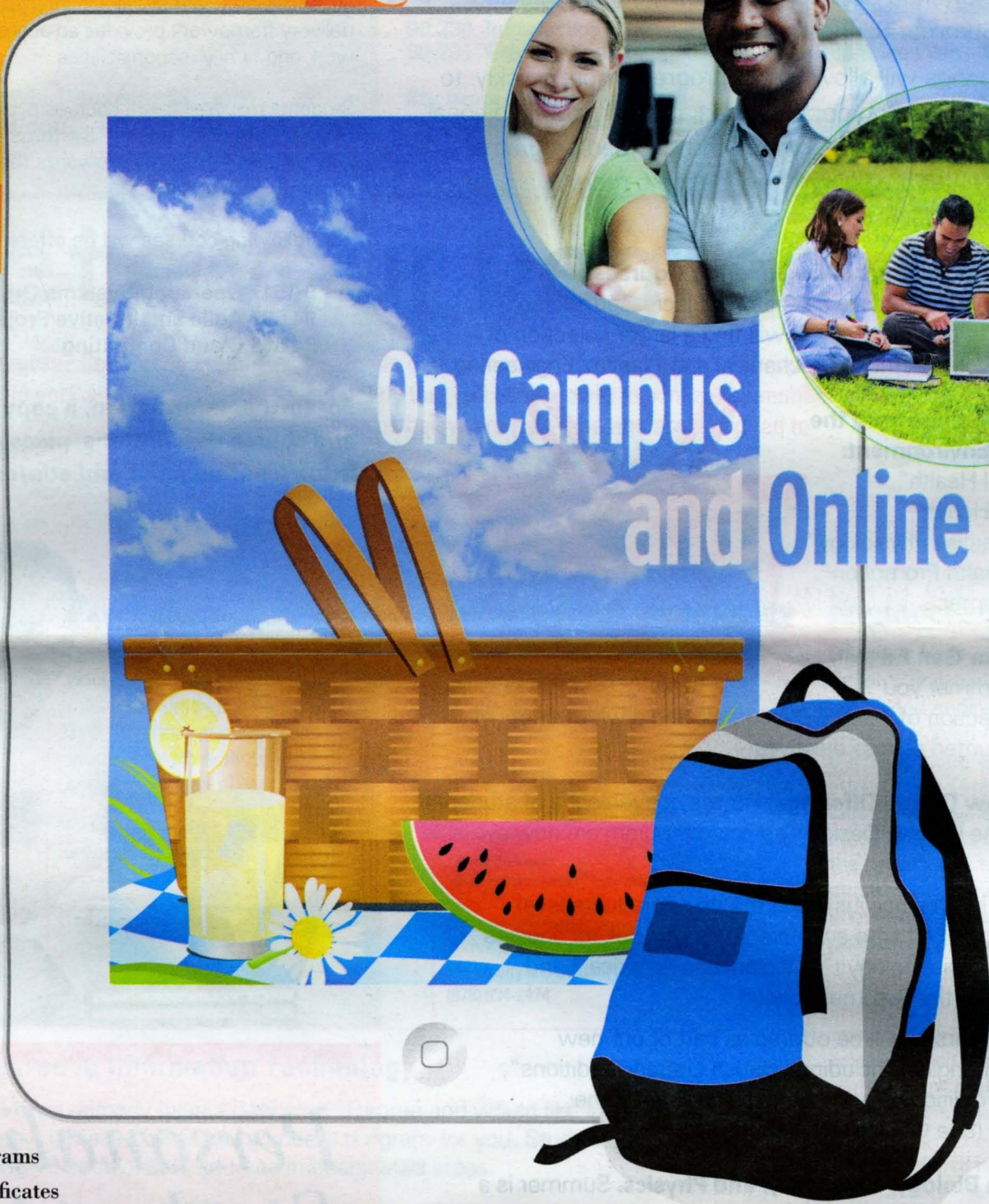


**Accelerate
Your Progress**
with our expanded
Summer Programs



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Classes Start May 20, 2013
Undergraduate & Graduate Courses

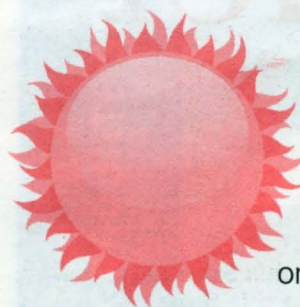


Design: TR Design

University of Massachusetts Lowell
The Division of Online and Continuing Education
One University Avenue
Lowell, MA 01854-2881
(978) 934-2480
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Lowell

Accelerate Your Education with our expanded Summer 2013 Offerings



Summer is a great time to accelerate your progress towards a degree, or to catch up on a required course that you could not take during the regular school year. Courses are offered on campus, online, or in a blended format.

In an effort to assist students to speed up their progress towards their goals, the University has significantly increased its Summer course offerings to meet the needs of several audiences.

The Division of Online and Continuing Education has worked closely with all academic departments to expand programming to meet your needs. In fact, we are offering over 100 additional courses, making this our largest ever Summer School.

These broadened offerings will allow you to progress more quickly, to participate in internship or co-op opportunities, or to pursue additional learning opportunities throughout the year. Study Abroad programs during Summer and Winter breaks will now become more available to students.

Consider Our Extensive Offerings in Engineering Courses:

If you are an Engineering student, take advantage of increased course offerings this Summer. In this bulletin you will find a larger selection of courses in Chemical, Civil, Electrical, Mechanical and Plastics Engineering.

Explore our popular offerings from the College of Health and Environment:

New courses in "Global Health", "Introduction to Public Health", "Advanced Study in Exercise Physiology" and "Introduction to Health Promotion" will be offered this Summer.



Complete some of your Gen Ed

requirements: This Summer you will discover a large selection of "Gen Ed" courses, and a wide variety of subjects that can be counted as free electives.

Take Advantage of New Online Offerings: For the convenience of students all required courses in the Graphic Design Certificate Program are now available fully online.

New online courses in Criminal Justice at the undergraduate level are being offered for the first time ever this Summer. Look for courses in "Police Process", "Criminology I", "Violence in America," and "CJ Statistics" listed in the Summer bulletin.

New online English courses will be offered as part of our new Bachelor's Degree in English, including "British Literary Traditions", "American Literary Traditions," and "British Literature of the Twentieth Century". (See Course listings).

Expanded Offerings in Biology, Chemistry, and Physics. Summer is a great time to take some science or lab courses that usually require more of a time commitment.

Expedite your progress towards your degree or certificate program. Our Summer sessions offer both traditional Day students as well as working professionals many opportunities to make progress towards a degree or certificate at convenient times and locations.



Our Professional Advancement programs offer working professionals high quality graduate and undergraduate degrees and certificates to advance their careers. Students will have access to the "Best of Both Worlds" by drawing on the resources of the University's full time faculty as well as some of the finest practitioners in the field.

Consider Every option: We hope you will take the time to explore the hundreds of opportunities available in this bulletin. Now is the time to broaden your professional education or accelerate your career options through a degree or certificate program.

Online Master's Degree in Information Technology

Start Earning Your Advanced IT Degree Online This Summer



The Information Technology industry has always been critical to the economic health of the Massachusetts economy.

This 10-course contemporary degree is technically focused and features cutting-edge knowledge content critical to the workforce needs of the Commonwealth.

Offered fully online, this new degree provides a pathway for students who have completed a Bachelor's in Information Technology degree at UMass Lowell and for working professionals who want to pursue advanced graduate studies in information technology. The online delivery framework provides an accessible format for students juggling work and family responsibilities.

Students may also count courses currently offered in the two graduate IT certificate programs in "Systems Models and Management" and "Network Security" towards the new Master's in Information Technology Degree.

The following courses will be offered this semester:

- 94.517 Operating Systems Organization – NEW!
- 94.535 Agile and Iterative Project Management – NEW!
- 94.565 Cloud Computing

For further information, a copy of the curriculum, and course descriptions, please visit our website at:
<http://continuinged.uml.edu/degrees/msit.cfm>



Personalized Student Services

Schedule an advising appointment

The Faculty and Student Support Center has implemented a new online self-service scheduling system for advising appointments.

Visit <http://continuinged.uml.edu/general/advising.cfm> or call 978-934-2474 to schedule an appointment



Earn a Bachelor's Degree in English Online!

Interested in the fields of literary studies or creative and professional writing?

A degree in English, with its emphasis on clear writing and critical thinking, can pave the way for a variety of career choices and is widely recognized as an asset in many businesses and organizations.

NEW ONLINE ENGLISH COURSES THIS SUMMER:

- 42.281-061 British Literary Traditions
- 42.282-061 American Literary Traditions
- 42.317-061 British Literature of the 20th Century

The online Bachelor's Degree in English will offer a flexible and vigorous curriculum grounded in British and American literary traditions, in the study of contemporary critical methods, and in the regular practice of research and writing.

For further information, visit <http://continuinged.uml.edu/degrees/english.cfm> or email englishstudies@uml.edu



Now Available Online!

Graphic Design & Digital Imaging Certificate Program

UMass Lowell's Fine Arts Department is pleased to announce that its undergraduate part-time certificate program in Graphic Design & Digital Imaging is now available online.



Required Courses: (6)

- 70.291 Introduction to Graphic Design – Online this Summer!
- 70.240 Fundamentals of Typography – Online this Summer!
- 70.245 Desktop Publishing: Layout and Production – Online this Summer!
- 70.262 Digital Imaging and Photography: Photoshop – Online this Summer!
- 70.391 Advanced Graphic Design – Online this Summer!
- 70.400 Portfolio Production Seminar – Online this Summer!

Electives - Choose 3:

- (partial list – visit web for more electives)
- 70.264 Computer Graphics & Illustration – Online this Summer!
- 70.362 Advanced Digital Imaging
- 70.379 Website Design – Online this Summer!
- 70.384 Advanced Website Design and Development – Online this Summer!
- 90.230 Introduction to Multimedia – Online this Summer!
- 90.231 Graphics for Multimedia and the World Wide Web – Online this Summer!

For more information, visit <http://continuinged.uml.edu/certificates/graphicdesign.cfm>

Complete your Degree

On campus, online, or both!

Interested in completing your degree? Continuing Education academic counselors can meet with you to review your previously completed coursework and suggest a program of study that will allow you to maximize the number of credits you can transfer into the program. The four degree programs below are part-time and are designed to allow degree completers the greatest flexibility towards achieving their goals.

Earn a Bachelor's Degree in...

Liberal Arts

Choose two of the following concentration areas:

- Psychology Concentration
- Art History Concentration
- Gender Studies Concentration
- Legal Studies Concentration
- History Concentration
- English Concentration
- Economics
- Political Science

Additional information on the Bachelor's Degree in Liberal Arts can also be found at <http://continuinged.uml.edu/degrees/bladegree.cfm>

Psychology

One of UMass Lowell's most popular degree programs for those interested in the social sciences. The Psychology curriculum acquaints students with scientific methods and psychological studies.

For further information, visit <http://continuinged.uml.edu/online/psychology>

Information Technology

"There are very few programs out there as strong as UMass Lowell's in terms of curriculum, value and reputation. The online courses are set up with a highly interactive interface, and there is a lot of collaboration between professors and students."

Andy Jackman
B.S. in Information Technology Student

For more information on our B.S. in Information Technology, please visit our website or call the Faculty and Student Support Center at (978) 934-2474.

PART TIME, ON CAMPUS

Engineering Technology

UMass Lowell offers one of the region's only part-time, fully-accredited engineering technology programs. With Associate's and Bachelor's degrees in Mechanical Engineering Technology and Electronic Engineering Technology, these programs offer adult learners the opportunity to complete their degrees part-time, while building their knowledge of engineering theory and practical applications.

"I wanted to stay current in my field. Several of the classes I took were directly related to my job and I was able to apply what I learned in my coursework immediately. Going back to school and earning a degree from UMass Lowell helped me get ahead in my career. The company I work for offered me a new position when I received my degree."

Saab Rihani
B.S. Engineering Technology, 2011

Earn a 2nd Bachelor's Degree in Information Technology

Interested in changing careers? If you already have a Bachelor's Degree and would like to pursue a second degree in Information Technology, UMass Lowell has a special program for you. Students can pursue a second Bachelor's in IT by taking 10 additional IT courses in designated areas.

For further information, visit <http://continuinged.uml.edu/degrees/2ndBSIT.cfm>

PART-TIME UNDERGRADUATE DEGREE PROGRAMS

COLLEGE OF ENGINEERING

Associate's Degrees

- Electronic Engineering Technology
- Mechanical Engineering Technology

Bachelor's Degrees

- Electronic Engineering Technology
- Mechanical Engineering Technology

COLLEGE OF FINE ARTS, HUMANITIES & SOCIAL SCIENCES

Bachelor's Degrees

- Criminal Justice
- Criminal Justice: Paralegal Option
- Liberal Arts
- English
- Psychology

COLLEGE OF SCIENCES

Associate's Degree

- Information Technology

Bachelor's Degrees

- Applied Mathematics
- Information Technology
- Information Technology: Business Minor Option
- Mathematics
- Mathematics: Statistics Concentration
- Mathematics: Teacher Concentration

MANNING SCHOOL OF BUSINESS

Associate's Degree

- Management

Bachelor's Degree

- Business Administration

SCHOOL OF HEALTH & ENVIRONMENT

- RN to BS in Nursing Degree Completion Option



For additional information on these part-time degree programs, visit <http://continuinged.uml.edu/engtech>

SIGNATURE PORTFOLIO OF ONLINE DEGREES & CERTIFICATES

FIND OUT HOW EASY IT IS TO TAKE A
COURSE OR COMPLETE YOUR

DEGREE ONLINE!

*** Graduate & Undergraduate * Fully Accredited * Affordable Tuition**

UMass Lowell is a nationally recognized leader in online learning and has been making its courses and degrees available to adult learners all over the world for over 15 years. Check out our wide array of fully-accredited, instructor-led courses that deliver the same high-quality instruction as our campus-based courses directly to your computer! Take classes from the convenience of your home or office. You can register for one or two courses, or pursue a degree or certificate program entirely online.



Online Undergraduate Degree Programs

- Bachelor's Degree in Information Technology, A.S. & B.S. *Business Minor Concentration Available*
- Bachelor of Liberal Arts Degree, B.L.A.
- Bachelor's Degree in Psychology, B.A.
- NEW** ● Bachelor's Degree in English, B.A.

Online Master's Degree Programs

- Master's Degree in Criminal Justice, M.A.
- Master's Degree in Business Administration (Online MBA)
- Master's Degree in Educational Administration, M.Ed.
- NEW** ● Master's Degree in Information Technology, M.S.
- Master's Degree in Reading and Language, M.Ed.
- Master's Degree in Curriculum & Instruction, M.Ed.
- Master's Degree in Curriculum & Instruction: Science Education Option, M.Ed.
- Master's Degree in Curriculum & Instruction: Autism Studies Option, M.Ed.

Online Education Specialist Degrees

- Curriculum & Instruction, Ed.S.
- Reading & Language, Ed.S.*
- Administration, Planning & Policy, Ed.S.*

Call (978) 934-2474 or visit <http://continuinged.uml.edu/online> to test drive an online course today! **Note:** The University of Massachusetts System offers additional courses and programs online. Visit www.UMassOnline.net for more details.

Online Undergraduate Certificate Programs

- Certificate in Contemporary Communications
- Certificate in Data/Telecommunications
- NEW** ● Certificate in Graphic Design and Digital Imaging
- Certificate in Information Technology
- Certificate in Multimedia Applications
- Certificate in Paralegal Studies
- Certificate in Security Management and Homeland Security
- Certificate in UNIX
- Certificate in Website Design and Development

Online Graduate Certificate Programs

- Certificate in Behavioral Intervention in Autism
- NEW** ● Certificate in Biomedical Engineering
- Certificate in Clinical Pathology
- Certificate in Domestic Violence Prevention
- Certificate in Foundations of Business
- Certificate in Forensic Criminology
- Certificate in Laboratory and Biological Safety
- NEW** ● Certificate in Network Security
- NEW** ● Certificate in New Venture Creation
- Certificate in Plastics Engineering
- Certificate in Security Studies
- NEW** ● Certificate in System Models and Management
- Certificate in Sleep and Sleep Disorders in Health and Disease
- Certificate in Victim Studies

**Note: Programs marked with an asterisk have some courses with on campus components.*

Please note: There are no veteran or senior citizens waivers for online courses. Please refer to pages 22-23.

EARN YOUR MBA ONLINE!

UMass Lowell's Manning School of Business (formerly the College of Management) — a leader in quality management education, recognized by Princeton Review since 2008 as one of America's Best Business Schools, and accredited by the top business accreditation association — is now offering their popular on campus MBA program online so that students both near and far can benefit from the program's commitment to excellence.

Master of Business Administration — Earn Your MBA Online, On Campus or Both!
<http://continuinged.uml.edu/online/mba/>

Concentrations are offered in Accounting, Finance, Information Technology or General Business.

Also available from the Manning School of Business:

Online Graduate Certificate in New Venture Creation

<http://continuinged.uml.edu/online/newventurecreation.cfm>

Online Graduate Certificate in Foundations of Business

<http://continuinged.uml.edu/online/foundofbusiness.cfm>

Master of Science in Innovation and Technological Entrepreneurship (MSITE)



UMass Lowell's Manning School of Business is accredited by the Association to Advance Collegiate Schools of Business (AACSB) International. AACSB is the world's premier accrediting agency for bachelor's, master's and doctoral degree programs in business administration, management and accounting.

For more information, contact Laura Christianson, Director of Management Graduate Programs, (978) 934-2853 or Kathleen Rourke, Coordinator of Management Graduate Programs, (978) 934-2848.

REQUIREMENTS AND REGISTRATION PROCEDURES FOR ONLINE COURSES

Online Education Course Registration Students should make sure they have fulfilled the particular course prerequisites prior to registering for a course. See the registration information on page 17 and the Registration Form for New Students at <http://continuinged.uml.edu>. The new registration form also contains a user-friendly checklist to help you through the registration and course login process. Note: Please be sure to provide your email address when you register!

Blackboard Usernames and Passwords All online students must obtain their Blackboard online course usernames and passwords by visiting <http://continuinged.uml.edu/online> and clicking on the "Get your username & password here" link. Online course usernames and passwords become available two business days after registering for an online course. The "Get your username & password here" link is usually made available to students approximately three weeks prior to the start of the semester.

All Online Students are encouraged to review the Online Education website at <http://continuinged.uml.edu/online> to view minimum technical requirements, course software and textbook requirements, course descriptions, chat hours and other course-specific information. Textbook requirements can be found at www.uml.edu/bookstore. Online courses require weekly participation and assignments. Online students can expect to spend 6-10 hours per course each week engaged in course-related activities. A microphone and speaker, or a headset is recommended.

Student Technical Skills and Requirements All students new to Online Education should complete the free "Test Drive a Course" demo available at <http://continuinged.uml.edu/online/tutorial/testdrive.htm>. Some online courses require additional software. Students are responsible for learning to use course-related software before enrolling in an Online Education course. Tutorials are available on the Online Education Website at: <http://continuinged.uml.edu/online/tutorial>.

Online Course Software Requirements — Be sure to check our website at <http://continuinged.uml.edu/online> to confirm course software requirements. For the latest information regarding our online courses and programs, visit our website at <http://continuinged.uml.edu/online> or call (978) 934-2474.

See our Website at <http://continuinged.uml.edu>

ONLINE GRADUATE PROGRAMS FOR EDUCATORS

Begin Your Graduate Studies Online
This Semester at UMass Lowell!

Experienced Educators...

Pursue Advanced Graduate Studies Online

UMass Lowell Offers 3 Online Ed.S. Degree Programs

UMass Lowell's Graduate School of Education is one of the area's leading providers of advanced-level degree programs designed specifically for teachers and administrators.

- 10 Courses for your M.Ed. or Ed.S.
- Affordable Tuition: Only \$465 per credit; \$1,395 for a 3-credit course!

The following graduate degree programs are available:

Online Master's Degrees in Education

- Educational Administration, M.Ed.
- Curriculum and Instruction, M.Ed.
- Curriculum and Instruction: Science Education, M.Ed.
- Curriculum and Instruction: Autism Studies, M.Ed.
- Reading and Language, M.Ed.

Online Education Specialist Degrees - Ed.S.

For experienced educators who already have their master's degree and teacher licensure.

- Curriculum and Instruction, Ed.S.
- Administration, Planning & Policy w/Principal Licensure, Ed.S.*
- Reading and Language w/Teacher of Reading Licensure, Ed.S.*

* Programs marked with an asterisk have some courses with on-campus components for in-state students. The above Ed.S. programs were previously offered as C.A.G.S. programs.



Licensure options are available for Massachusetts teachers. Visit our website for details!

For more details, visit <http://continuinged.uml.edu/education>

CUSTOMIZED TRAINING

Designed to meet your company's business needs

* [HTTP://CONTINUINGED.UML.EDU/CORPORATE](http://continuinged.uml.edu/corporate)

With a large selection of courses and expert instructors, the University of Massachusetts Lowell serves as an important educational resource for companies both nationally and internationally. The University — which is particularly well-known for its Engineering, Information Technology, Computer Science, Health, Management, and Manufacturing programs — provides training to employees on campus and at numerous company locations.

A variety of training areas are available, and UMass Lowell can develop customized training programs that feature the industry-specific software and technologies your company uses most!

Call (978) 934-2144 to speak with a corporate training specialist. For a list of training areas visit <http://continuinged.uml.edu/corporate>.

Book Your Stay or Your Next Event at UMass Lowell's Inn & Conference Center

Located in the heart of scenic downtown Lowell and just minutes from the intersections of I-495, Route 3 and the Lowell Connector, UMass Lowell's Inn & Conference Center is the perfect destination for your special event or getaway. From luxurious inn-style guestrooms to meeting rooms that will accommodate 10 to 750 attendees, our expert team of hospitality specialists will work with you to ensure that your event or stay is a success.

For additional information, call 978-934-6918 or visit <http://www.uml.edu/icc>



UMass Lowell is a PMI® approved Registered Education Provider

For additional information, visit <http://continuinged.uml.edu/corporate/projectmanagementcertificate.cfm>

Project Management Noncredit Certificate • SUMMER 2013 To register call (978) 934-2405!

Learn how you can apply these seminars towards a project management certificate by visiting our website at <http://continuinged.uml.edu>. Seminars may be taken individually or applied towards a project management certificate. For a project management brochure, or information on our Project Management Certificate Program, call (978) 934-2473.

REQUIRED SEMINARS

Project Management Noncredit Certificate

Summer 2013
To register call 978-934-2405

REQUIRED SEMINARS:

Project Management: Planning and Scheduling

CRS #00.608-043
Two Days; Meets 9am-4pm;
Thursday/Friday, May 2, 3
Held on Lowell Campus; Tuition: \$825;
Contact Hours/ PDUs: 14

Project Management: Resources and Budgeting

CRS #00.609-043
Two Days; Meets 9am-4pm;
Thursday/Friday, June 6, 7
Held on Lowell Campus; Tuition: \$825;
Contact Hours/PDUs: 14

Risk Management

CRS #00.614-043
Two Days; Meets 9am-4pm;
Thursday/Friday, June 13, 14
Held on Lowell Campus; Tuition: \$825;
Contact Hours/PDUs: 14

ELECTIVES SEMINARS (Choose 3):

Microsoft® Project 2013

CRS #00.610-042
Two Days; Meets 9am-4pm;
Wednesday/Thursday, June 26, 27
Held on Lowell Campus; Tuition: \$875;
Contact Hours/PDUs: 14

Leadership Skills

CRS #00.616-041
One Day; Meets 9am-4pm;
Friday, June 21
Held on Lowell Campus; Tuition: \$495;
Contact Hours/PDUs: 7

Organizational Skills

CRS # 00.617-041
Two Evenings; Meets 6pm-9:30pm;
Wednesdays, May 22, 29
Held on Lowell Campus; Tuition: \$495;
Contact Hours/PDUs: 7

Negotiation Skills

CRS #00.618-041
Four Evenings; Meets 6pm-9:30pm;
Tuesdays, May 7, 14, 21, 28
Held on Lowell Campus; Tuition: \$825;
Contact Hours/PDUs: 14

Project Management "Put Into Practice"

CRS #00.623-041
Two Days; Meets 9am-4pm;
Thursday/Friday, May 30, 31
Held on Lowell Campus; Tuition: \$825;
Contact Hours/PDUs: 14

Conflict Resolution for Project Managers

CRS# 00.624-041
Two Evenings; Meets 6pm-9:30pm;
Wednesdays, April 10, 17
Held on Lowell Campus; Tuition: \$495;
Contact Hours/PDUs: 7

Communication & Team Management

CRS #00.626-041
Two Days; Meets 9am-4pm;
Wednesday/Thursday, April 24, 25
Held on Lowell Campus; Tuition: \$825;
Contact Hours/PDUs: 14

OPTIONAL SEMINAR

PMP Exam Preparation

CRS # 00.621-042
Two days; Meets 9am-4pm
Thursday/Friday May 9, 10
CRS # 00.621-043
Four Evenings; Meets 6pm-9:30pm;
Tuesday/Thursday; June 4, 6, 11, 13
Held on Lowell Campus; Tuition: \$550;
Contact Hours/PDUs: 14

NEW

PROJECT MANAGEMENT FOR EVERYONE

1 OR 2 DAY SEMINAR
AVAILABLE ON SITE AT
YOUR COMPANY

For more information, please call
(978) 934-2144

ENGINEERING TECHNOLOGY EDUCATIONAL PROGRAMS FOR YOUR EMPLOYEES

MANUFACTURING TECHNOLOGY

Examples: Geometric Dimensioning and Tolerancing, Manufacturing Productivity, Engineering Economics, Technical Communications, and more.

ELECTRONICS TECHNOLOGY

Examples: Electrical Basics, Circuits, PLC, and more.

PLASTICS TECHNOLOGY

Examples: Plastics Material Science, Injection Molding, and more.

Customized credit or noncredit programs designed to meet your company's specific business requirements.

Call to schedule a consultation with our corporate education team.



Call (978) 934-2144 – Onsite Training is Available for Groups of 10 or More

PLASTICS SEMINARS

INTERESTED IN PLASTICS TRAINING?



Attend our plastics seminars on campus— or on site at your company!

Visit our website at
<http://continuinged.uml.edu/plastics>

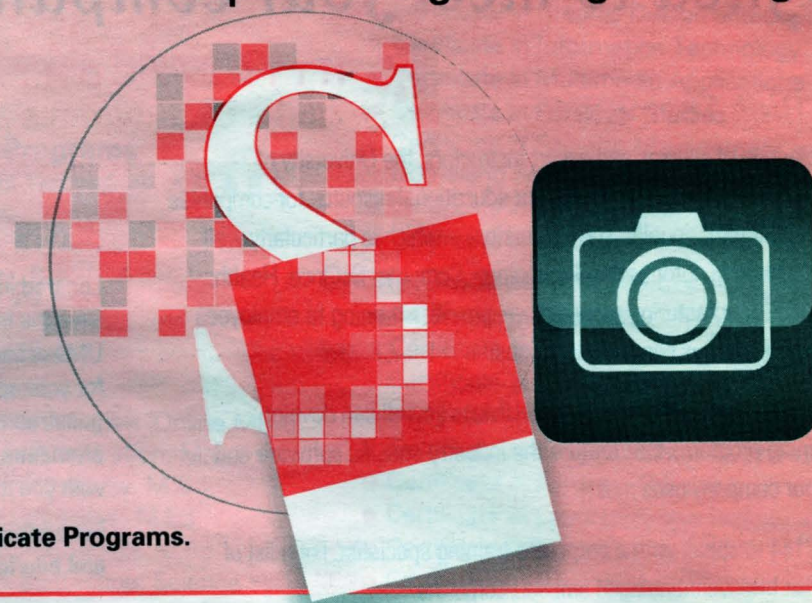
For information on having these seminars at your facility, call (978) 934-2144.

Certificate Programs

Graphic Design & Digital Imaging

- Our Continuing Education Certificate Programs get you one step closer to your degree, faster than you ever imagined possible.
- Six to Ten Courses to a New Career.
- Many of the certificates are available on campus or online!

Please note, UMass Lowell also offers several Online Graduate Certificate Programs. See page 4 for more details.



Creative Arts/Media

Graphic Design & Digital Imaging

Use Towards a Degree in Information Technology or Liberal Arts!★

Now available online

This certificate program offers students interested in breaking into graphic design and electronic publishing an innovative mix of traditional design courses along with several courses in the latest publishing technologies. From traditional graphic design to designing for multimedia and the Web, students in the program complete numerous portfolio pieces geared towards the professional market.

Required Courses: (6)

- 70.291 Introduction to Graphic Design
- 70.240 Fundamentals of Typography
- 70.245 Desktop Publishing: Layout and Production
- 70.262 Digital Imaging and Photography: Photoshop®
- 70.391 Advanced Graphic Design
- 70.400 Portfolio Production Seminar

Electives: (Choose 3):

- 70.264 Computer Graphics & Illustration
- 70.362 Advanced Digital Imaging
- 70.376 3D Computer Animation
- 70.377 Advanced Animation: After Effects®
- 70.379 Website Design: Dreamweaver®
- 70.384 Advanced Website Design & Development
- 70.392 Design for Advertising
- 90.230 Introduction to Multimedia
- 90.231 Graphics for Multimedia and the Web
- 90.238 Website Development: Microsoft® Expression® Web
- 90.247 Web Authoring: Adobe® Flash®

Multimedia Applications

Available on campus and online

Use Towards a Degree in Information Technology!★

The Multimedia Certificate Program at UMass Lowell is one of the largest, most comprehensive programs of study in multimedia available in New England. It draws upon the expertise of several departments, colleges, and centers within the University, as well as outside expertise from industry professionals. You can earn the Certificate in Multimedia Applications online or as a mix of online and on campus courses!

Required Courses: (4)

- 90.230 Introduction to Multimedia
- 90.231 Graphics for Multimedia and the Web
- 90.232 Desktop Video Production
- 90.247 Web Authoring: Adobe® Flash®

Electives: (Choose 2):

- 70.262 Digital Imaging and Photography: Photoshop®
- 70.264 Computer Graphics and Illustration
- 70.291 Introduction to Graphic Design
- 70.376 3D Computer Animation
- 70.379 Website Design: Dreamweaver®
- 70.384 Advanced Website Design and Development
- 78.201 Introduction to Audio for Multimedia and the Web
- 90.238 Website Development: Microsoft® Expression® Web
- 90.250 E-Commerce on the Web
- 90.291 Introduction to DHTML
- 90.306 Introduction to XML
- 90.346 Digital Media Delivery
- 90.347 Rich Web Development: Advanced Flash®

Contemporary Communications

Available on campus and online

Use Towards a Degree in Information Technology or Liberal Arts!★

The Contemporary Communications Certificate is intended as an introductory certificate to prepare students for work in a rapidly changing, information-driven workplace. Students will develop skills in research, analysis, writing, graphic presentation of material, and the use of technology as a tool for communication.

Required Courses: (4 plus 2 electives)

Written Communication (Choose 1):

- 42.224 Business Writing
- 42.226 Technical and Scientific Communication
- 42.300 Journalism

Computer-Based Communications (Choose 1):

- 90.160 Introduction to Information Systems
- 90.238 Website Development: Microsoft® Expression® Web
- 90.291 Intro to DHTML
- 91.113 Exploring the Internet

Strategic Thinking & Effective Communication (Choose 1):

- 45.202 Introduction to Logic
- 46.210 Media and Politics
- 62.201 Marketing Principles
- 90.250 E-Commerce on the Web
- 90.460 Computer Ethics

Multimedia/Graphic Design and Development (Choose 1):

- 70.291 Introduction to Graphic Design
- 90.230 Introduction to Multimedia
- 90.231 Graphics for Multimedia and the Web
- 90.232 Desktop Video Production

Electives: (Choose 2 not already taken):

- 42.224 Business Writing
- 42.226 Technical and Scientific Communication
- 42.300 Journalism
- 45.202 Introduction to Logic
- 45.205 Argumentation and Rhetoric
- 45.207 Corporate Communications
- 45.356 The History, Theory, and Practice of Rhetoric
- 46.210 Media and Politics
- 46.316 Politics and Film
- 62.201 Marketing Principles
- 70.291 Introduction to Graphic Design
- 90.160 Introduction to Information Systems
- 90.230 Introduction to Multimedia
- 90.231 Graphics for Multimedia and the Web
- 90.232 Desktop Video Production
- 90.238 Website Development: Microsoft® Expression® Web
- 90.250 E-Commerce on the Web
- 90.291 Intro to DHTML
- 90.460 Computer Ethics
- 91.113 Exploring the Internet

Additional Certificate Programs

UMass Lowell also offers certificate programs in:

- Manufacturing Technology
- Plastics Technology
- Computer Assisted Manufacturing
- Computer Engineering Technology
- Electronics Technology
- Nutrition

Criminal Justice

Paralegal Studies

Available on campus and online

Use Towards a Degree in Criminal Justice!★

The Certificate Program in Paralegal Studies offers a unique mix of legal theory and practical skills applications. One special feature of specific interest in the program is the Paralegal Practicum, which can provide students with real-world experience in research, drafting, ethics, and client interaction. All of the courses in the certificate program may be applied to the B.S. degree in Criminal Justice, Paralegal Option.

Required Courses: (4)

- 41.103 Introduction to Paralegal Studies
- 41.370 Real Estate Law
- 41.387 Legal Research Methods
- 41.390 Litigation

Electives: (Choose 2):

- 41.363 Corporate and Property Law
- 41.366 International Law
- 41.367 Environmental Law
- 41.376 Family Law
- 41.381 Women and the Law
- 41.383 Alternative Dispute Resolution
- 41.392 Wills, Trusts, and Estates
- 41.497 The Paralegal Practicum

Security Management and Homeland Security

Available on campus and online

Use Towards a Degree in Criminal Justice!★

Since September 11th, the U.S. Department of Labor has been predicting that the employment of security management personnel will grow faster than all other occupations due to the threat of terrorism. This part-time certificate program is designed for personnel working in the areas of public safety, security management, and law enforcement; executives in corporations responsible for overseeing in-house security programs; and information technology professionals.

Required Courses: (4)

- 44.115 Introduction to Homeland Security
- 44.241 Physical Security
- 44.312 Security Management
- 90.385 Introduction to Information Security (Cyber Security)

Electives: (Choose 2):

- 44.212 Weapons of Mass Destruction
- 44.234 Criminal Law
- 44.248 Terrorism
- 44.326 Domestic Terrorism and Hate Crimes
- 44.342 Criminal Profiling
- 44.343 Forensic Psychology
- 44.380 Selected Issues in Criminal Justice

Free software

Get Free Microsoft® Developer Software when you register for certain UMass Lowell courses! Refer to the courses with the icon designating applicable courses.

Note: Does not include Microsoft® Office or Adobe® software products.

For a complete list of all applicable courses and other information, please visit <http://continuinged.uml.edu/msdnaa.htm>

★ Many of the courses in these certificate programs can be applied towards a part-time degree. See page 3 and 4 or visit our website for more information on degrees. For information on how to apply these courses into your degree, call our Student Support Specialists at (978) 934-2474.

Information Technology

According to the U.S. Bureau of Labor Statistics...

Demand for information technology workers is expected to continue its growth trajectory through 2018.

Source: Occupational Outlook Handbook, 2010-11 Edition

Mass High Tech Ranks UMass Lowell's I.T. Programs as Largest in New England in 2011

In a recent article by *Mass High Tech*, UMass Lowell was featured as the largest I.T. Degree Program in New England. See the article in *Mass High Tech!* (April 27, 2011 issue, page 23)

PART-TIME UNDERGRADUATE I.T. PROGRAMS

- A.S. in Information Technology - Online or On Campus
- B.S. in Information Technology - Online or On Campus
- B.S. in Information Technology: Business Minor - Online or On Campus
- Earn a Second Bachelor's Degree in Information Technology - Online or On Campus!
- Undergraduate Certificates - UNIX, Website Design & Development, Database Management Technologies (Oracle), Information Technology, Multimedia Applications

NEW! PART TIME GRADUATE CERTIFICATE PROGRAMS FOR I.T. PROFESSIONALS

- Online Certificate Program in Systems Models and Management
- The Online Graduate Certificate Program in Network Security

NEW! Online Master's Degree in Information Technology

See page 2 for details.



Information Technology

Available on campus and online

Use Towards a Degree in Information Technology!★

The need for professionals with a strong information technology background will continue to increase as business, government, schools, and other organizations rely more heavily on computers and networks in the workplace. This certificate is designed as an introductory program for those who want to explore a broad range of electives in different subject areas before deciding on an area of specialization.

Required Courses: (2)

- 90.160 ❖ Introduction to Information Systems*
- 90.202 ❖ Microsoft® Office*

Electives: (Choose 4):**

Programming Electives:

- 90.211 ❖ Introduction to Programming with C, Part I
- 90.212 ❖ Introduction to Programming with C, Part II
- 90.220 ❖ Visual Basic
- 90.267 ❖ C Programming
- 90.268 ❖ C++ Programming
- 90.269 ❖ Advanced C++
- 90.270 ❖ Visual C++ .NET
- 90.364 ❖ Problem Solving with C

Database Electives:

- 90.171 ❖ Applications Software: Microsoft® Access
- 90.342 ❖ Web-Enabled Database Development
- 90.474 ❖ Relational Database Concepts

Multimedia/Web Electives:

- 90.230 ❖ Introduction to Multimedia
- 91.113 ❖ Exploring the Internet

Additional Electives:

- 90.311 ❖ Linux/UNIX Operating System
- 90.312 ❖ Shell Scripting
- 90.461 ❖ LAN/WAN Technologies

*Students with appropriate experience can replace the required courses with any of the electives courses.

**Note: This is a partial list. For the complete list of courses that may be applied as electives, see the Online & Continuing Education website for computer courses with the 90. prefix, or contact the Faculty and Student Support Center at 978-934-2474

Linux®/UNIX®

Available on campus and online

Use Towards a Degree in Information Technology!★

The Certificate in Linux/UNIX is designed for those currently in the computer industry who want to upgrade their skills, and for those with basic computer literacy who want to learn about UNIX and Linux operating systems. Students learn skills that are immediately applicable in the workplace as well as C Programming, one of the most widely used programming languages in the world.

Required Courses: (4)

- 90.267 ❖ C Programming
- 90.311 ❖ Linux/UNIX Operating System
- 90.312 ❖ Shell Scripting
- 90.360 ❖ Introduction to Data Structures

Electives: (Choose 2):

- 90.268 ❖ C++ Programming
- 90.269 ❖ Advanced C++
- 90.313 ❖ Linux/UNIX Internals Overview
- 90.316 ❖ Linux/UNIX System Administration

❖free software (See page 6 for details.)

For more information on any of these certificate programs visit our Website at <http://continuinged.uml.edu> or call (978) 934-2474.

Oracle® professionals continue to be in high demand!

Database Management Technologies

Available on campus and some blended

Use Towards a Degree in Information Technology!★

The Database Management Technologies Certificate program, as part of Oracle Corporation's Academic Initiative (OAI), prepares students for the requirements and rigors of becoming an in-demand Database Administrator or Developer. Centered on the industry-leading Oracle 11g/12i™ product suite, students engage in a progressive learning experience. Hands-on skill building throughout the program will prepare students for challenging and highly rewarding positions in today's data-driven industry.

Required Courses: (4)

- 90.450 ❖ Database Administration I: Introduction to Oracle 11g
- 90.453 ❖ Database Administration II: Advanced Oracle 11g
- 90.454 ❖ Oracle 11g SQL Development
- 90.459 ❖ PL/SQL I: Introduction to Oracle 11g PL/SQL

Note: Students with experience equivalent to any of the required courses may substitute up to two electives for the required courses, with prior approval of the program coordinator.

(Choose 3 Electives from either of the following Tracks):

Electives: Developer Track

- 90.304 ❖ Oracle Java/Web Development
- 90.467 ❖ PL/SQL II: Advanced Oracle 11g PL/SQL
- 90.474 ❖ Relational Database Concepts

Electives: Administrator Track

- 90.443 ❖ Introduction to Client/Server Computing
- 90.455 ❖ Database Administration III: Oracle 11g Projects
- 90.466 ❖ Oracle 11g Data Warehousing
- 90.469 ❖ Oracle 11g R2 High Performance and Internals
- 90.479 ❖ Oracle 12i Applications DBA

Note: If you would like to, you may choose one elective course from one of the tracks and two elective courses from the other track, as long as you take a total of three elective courses in addition to the required courses above

Data/Telecommunications

Available on campus and online

Use Towards a Degree in Information Technology!★

The Certificate Program in Data/Telecommunications trains participants for positions as entry-level network administrators, LAN technicians, and system analysts responsible for networking functions in large or small companies.

Required Courses: (5)

- 90.267 ❖ C Programming
- 90.461 ❖ LAN/WAN Technologies
- 90.462 ❖ TCP/IP and Network Architecture
- 90.457 ❖ Network Security
- 90.464 ❖ Network Management

Website Design & Development

Available online

Use Towards a Degree in Information Technology!★

The Certificate Program in Website Design and Development is designed to provide students with the knowledge they need to design and implement effective, dynamic websites. Students pursuing this certificate program have the option of taking either the Web Design Track or the Web Development Track, depending on their particular area of interest. You can earn the Certificate in Website Design & Development entirely online, on campus, or by taking a combination of online and on campus courses.

Website Design Track

Note: Students pursuing the Website Design Track should have basic familiarity with HTML. Those who do not have basic familiarity with HTML are encouraged to take 90.291 Introduction to DHTML as one of their electives prior to taking the required courses in this program.

Required Courses: (4)

- 90.231 ❖ Graphics for Multimedia and the Web
- 70.379 ❖ Website Design: Dreamweaver®
- 70.384 ❖ Advanced Website Design & Development
- 90.247 ❖ Web Authoring: Adobe® Flash®

Electives: (Choose 2):

- 70.262 ❖ Digital Imaging and Photography: Photoshop®
- 90.230 ❖ Introduction to Multimedia
- 90.238 ❖ Website Development: Microsoft® Expression® Web
- 90.248 ❖ Website Database Implementation
- 90.250 ❖ E-Commerce on the Web
- 90.291 ❖ Introduction to DHTML
- 90.292 ❖ Advanced DHTML
- 90.302 ❖ JavaScript
- 90.306 ❖ Introduction to XML
- 90.346 ❖ Digital Media Delivery
- 90.347 ❖ Rich Web Development: Advanced Flash®
- 90.348 ❖ Developing Dynamic Websites with ColdFusion®**

Website Development Track

Required Courses: (4)

- 90.291 ❖ Introduction to DHTML
- 90.238 ❖ Website Development: Microsoft® Expression® Web
- 90.248 ❖ Website Database Implementation
- 90.306 ❖ Introduction to XML

Electives: (Choose 2):

- 70.379 ❖ Website Design: Dreamweaver®
- 70.384 ❖ Advanced Website Design and Development
- 90.227 ❖ Developing Interactive Help Systems
- 90.231 ❖ Graphics for Multimedia and the Web
- 90.245 ❖ Website Server Administration
- 90.246 ❖ Active Server Pages .NET
- 90.247 ❖ Web Authoring: Adobe® Flash®
- 90.250 ❖ E-Commerce on the Web
- 90.292 ❖ Advanced DHTML
- 90.301 ❖ Java Programming
- 90.302 ❖ JavaScript
- 90.305 ❖ Survey of Perl/Python/PHP
- 90.346 ❖ Digital Media Delivery
- 90.347 ❖ Rich Web Development with Advanced Flash®
- 90.348 ❖ Developing Dynamic Websites with ColdFusion®**

*Not currently available online.

**Note: Other 90.xxx courses may be substituted as electives for the Website Development Track with prior approval from the certificate program coordinator.

Summer Session I | May 20-June 27

M/W Classes begin on Monday, May 20 and include 3 FRIDAYS: May 24, June 7 and June 21 at the regularly scheduled hours.
T/Th Classes begin on Tuesday, May 21 and include 2 FRIDAYS: May 31 and June 14 at the regularly scheduled hours.

Please check course numbers and prerequisites to ensure enrollment in the correct class.

ISIS Class No.	Course No.	Title	Days	Time	Cr (Con)	P: Prerequisite C: Corequisite/Comments	Instructor
ACCOUNTING							
2778	60.201-011	Accounting/Financial (Course ends June 27)	T/Th	6:00-9:00 pm	3		Steven M. DeSimone
2779	60.201-061	Accounting/Financial	>Online Course		3		Clairmont Carter
2780	60.202-011	Accounting/Managerial (Ends June 27)	T/Th	6:00-9:00 pm	3	P: 60.201	Department Faculty
2781	60.301-011	Intermediate Accounting I (Ends June 27)	M/W	6:00-9:00 pm	3	P:60.202; BSBA students	Stefanie Tate
2783	60.302-011	Intermediate Accounting II (Ends June 27)	M/W	6:00-9:00 pm	3	P: 60.301	Janie Casello Bouges
3132	60.303-011	Accounting Information Systems (Ends June 27)	T/Th	6:00-9:00 pm	3		Lisa Andrusailis
2788	60.331-011	Cost Management Systems (Ends June 27)	T/Th	6:00-9:00 pm	3	P: 60.202; (non-Accounting majors)	Laura Christianson
2789	60.431-011	Federal Income Taxes (Course ends June 27)	T/Th	6:00-9:00 pm	3	P: 30.202	Rashida Motiwalla
ART/COMPUTER GRAPHICS							
2806	70.240-061	Fundamentals of Typography	>Online Course		3	P: Basic Mac or Windows proficiency; requires Adobe® Illustrator® & Photoshop® CS5 or CS6	Catherine Meeks
2807	70.264-061	Computer Graphics & Illustration	>Online Course		3	P: Basic Mac or Windows proficiency; requires Adobe Illustrator & Photoshop CS5 or CS6	Catherine Meeks
2808	70.245-061	NEW! Desktop Publishing: Layout and Production w/Adobe InDesign	>Online Course		3	P: Basic computer/Internet proficiency; requires Adobe InDesign® CS6, access to a scanner, and a \$30 media access fee (instructor to provide details first week of class)	Regina Gardner-Milan
2809	70.262-061	Digital Imaging and Photography: Photoshop	>Online Course		3	P: Basic Mac or Windows proficiency; requires Adobe Photoshop CS5 or CS6	Ella Carlson
2810	70.291-061	Graphic Design I / Intro to Graphic Design	>Online Course		3	P: Basic Mac or Windows proficiency; requires Adobe InDesign & Photoshop CS6	Patricia Orfao
2811	70.391-061	NEW! Advanced Graphic Design/Graphic Design II	>Online Course		3	P: 70.291; requires Adobe InDesign & Photoshop CS6	Patricia Orfao
2812	70.379-061	Website Design: Dreamweaver®	>Online Course		3	P: Basic HTML and Photoshop familiarity required; requires Adobe Dreamweaver® and Photoshop CS5 or CS6	Christopher Perry
2813	70.384-061	Advanced Website Design & Development	>Online Course		3	P: 70.379; req. Dreamweaver CS5 or CS6	Christopher Perry
2815	70.400-061	NEW! Portfolio Production Seminar	>Online Course		3	P: 70.291, 70.240, 70.245 and 70.391 or instructor permission; req. Adobe Creative Suite CS5 or CS6	Ellen Wetmore
Graphic/Web Design Students – Ask your software reseller if they offer academic pricing on the above Adobe software. Affordable pricing may be available to you if you provide your reseller with proof of your student status. Some resellers may accept your semester schedule as proof, which you can access as isis.uml.edu Note: While the above courses will not transfer directly into the Art Department's Bachelor of Fine Arts Day School degree program, certain two-course clusters may be accepted for transfer upon prior department approval.							
ART HISTORY							
3169	58.101-011	Art Appreciation	T/Th	6:00-9:00 pm	3	AH	Department Faculty
2390	58.101-061	Art Appreciation	>Online Course		3	AHD	Julie Sawyer
2385	58.105-061	Comparative Arts	>Online Course		3	AHD	Julie Sawyer
2386	58.203-061	History of Art I: Prehistoric to Medieval Art	>Online Course		3	AHD	Tina Bizzarro
2387	58.204-061	History of Art II: Renaissance to Modern Art	>Online Course		3	AHD	Tina Bizzarro
2389	58.321-061	Italian Renaissance Art	>Online Course		3	AH	Liana Cheney
2391	58.330-061	Italian Mannerism	>Online Course		3	AH	Liana Cheney
BIOLOGICAL SCIENCES							
2851	81.235-011	NEW! Genetics	M-Th	8:00-10:00 am	3	P: 81.111; C: 81.237	Amanda Benson
3119	81.237-011	Problems in Genetics	M	10:00-11:00 am	1	C: 81.235	Amanda Benson
2334	83.101-011	Life Science I	T/Th	6:00-9:00 pm	3	SCLO	Phuong-son Nguyen
2337	83.106-061	Human Biology	>Online Course		3	SC	Gail Skinner-Brassard
2338	83.110-061	Microbes and Society: Good, Bad and Ugly	>Online Course		3	SC	Ekaterina Vorotnikova
2339	83.214-061	Human Ecology	>Online Course		3	SCL	Priscilla Mattson
CHEMICAL ENGINEERING							
3052	10.201-011	Material Balances	M-Th	10:15 am-12:15 pm	3	P: 84.121, 95.141 or equivalent	Nirupama Kattamuri
3134	10.317-011	NEW! Applied Engineering Problem Solving with Matlab	M-Th	8:00 am-10:00 am	3	P: 92.234 or 92.236	John White
CHEMISTRY							
2852	84.101-061	Applied Chemistry for Non-Scientists	>Online Course		3	SCL	Philip Lamprey
2853	84.101-062	Applied Chemistry for Non-Scientists	>Online Course		3	SCL	Philip Lamprey
2854	84.102-031	Forensic Science for the Non-Scientist	>Online Course		3	SCL	Eugene Barry
2855	84.102-032	Forensic Science for the Non-Scientist	>Online Course		3	SCL	Eugene Barry
2856	84.111-011	General Chemistry I	T/Th	7:00-10:00 pm	3	C: 84.113; SCL	Daniel Lavoie
2859	84.113-011	General Chemistry Laboratory I	T/Th	3:30-6:30 pm	1(3)	C: 84.111; SCL	Daniel Pyburn
2861	84.121-011	Chemistry I	M/W	6:00-10:00 pm	3(4)	C: 84.123; SCL	Stephen Theberge
2862	84.122-011	Chemistry II	T/Th	6:00-10:00 pm	3(4)	P: 84.121; C: 84.124; SCL	Kim Shih
2864	84.123-011	Chemistry I Laboratory	T/Th	7:00-10:00 pm	1(3)	C: 84.121 SCL	Paul Damour
2865	84.123-012	Chemistry I Laboratory	T/Th	7:00-10:00 pm	1(3)	C: 84.121 SCL	Daniel Pyburn
2866	84.124-011	Chemistry II Laboratory	M/W	7:00-10:00 pm	1(3)	C: 84.122; SCL	Department Faculty
2870	84.221-011	Organic Chemistry IA	M/T/Th	2:00-5:15 pm	3(4)	P: 84.122; C: 84.227 or 84.229	Gene Davis
2871	84.221-012	Organic Chemistry IA	T/Th	6:00-10:00 pm	3(4)	P: 84.122; C: 84.227 or 84.229	Gene Davis
2872	84.221-013	Organic Chemistry IA	T/Th	6:00-10:00 pm	3(4)	P: 84.122; C: 84.227 or 84.229	Javier Horta
2874	84.221-014	Organic Chemistry IA	M/W/F	2:00-5:15 pm	3(4)	P: 84.122; C: 84.227 or 84.229	Khalilah Reddie
2873	84.229-011	Organic Chemistry IA Laboratory	T/Th	6:15-9:15 pm	1(3)	C: 84.221	Hongning Fu
2875	84.229-012	Organic Chemistry IA Laboratory	M/W	6:15-9:15 pm	1(3)	C: 84.221	Hongning Fu
2879	84.229-013	Organic Chemistry IA Laboratory	M/W	6:15-9:15 pm	1(3)	C: 84.221	Kim Shih
CIVIL ENGINEERING							
3046	14.203-011	Statics (alternate 22.211)	T/Th	6:00-9:00 pm	3	P: 95.141; C: 92.132	Michael Shenoda
3048	14.205-011	Dynamics (alternate 22.213)	M-Th	8:00-10:00 am	3	P: 14.203	Edward Hajduk
3146	14.225-011	Surveying I	M/W/F	8:00 am-12:00 pm	3	P: 25.107, 25.108; C: 92.132, 14.286	Chronis Stamatiadis
			T/TH	10:00 am-1:00 pm			
3049	14.286-011	Probability and Statistics for Engineers	M/W	6:00-9:00 am	3	P or C: 92.132	Paul DeStefano
3050	14.350-011	Structural Analysis	M-Th	8:00-10:00 am	3	P: 14.204 or 22.212	Susan Faraji
3075	14.466-011	Introduction to LEED	M/W	6:00-9:00 pm	3		Michael Shenoda

SUMMER I UNDERGRADUATE COURSES

ISIS Class No.	Course No.	Title	Days	Time	Cr (Con)	P: Prerequisite C: Corequisite/Comments	Instructor
COMPUTER SCIENCE			(See also Information Technology)				
2701	91.101-001	Computing I	M/T/Th	10:00-11:15 am	3		Mark Sherman
3110	91.113-011	Exploring the Internet	M-TH	10:15 am-12:15 pm	3		Michael Rupert
3086	91.201-001	Computing III	T/TH	10:00-11:30 am	3	P: 91.102	John Sharko
2695	91.301-001	Organization of Programming Languages	W	6:00-9:00 pm	3		Krishnan Seetharaman
2696	91.404-001	Analysis of Algorithms	Thurs	5:30-8:30 pm	3		Zachary Kissel
Please note courses with a 91- and 94- prefix can be used as Information Technology electives in the Information Technology program							
CRIMINAL JUSTICE			For permission numbers and questions regarding the Undergraduate Criminal Justice Program, email Allan_Roscoe@uml.edu				
2913	44.101-011	The Criminal Justice System	T/Th	2:00-5:00 pm	3		Kaitlyn Clarke
2914	44.115-061	Introduction to Homeland Security	>Online Course		3		Robert Sojka
2915	44.141-031	NEW! Police Process	>Online Course		3		Kristen Chierus
2916	44.151-011	Introduction to Corrections	M/W	9:00 am-12:00 pm	3		Cathy Levey
2917	44.212-061	Weapons of Mass Destruction	>Online Course		3		Brian LeBlanc
2918	44.221-031	NEW! Criminology I	>Online Course		3		Gina Curcio
2919	44.234-011	Criminal Law	T/Th	9:00 am-12:00 pm	3		Stephen Zane
2920	44.241-061	Physical Security	>Online Course		3		Brian LeBlanc
3136	44.327-031	NEW! Violence in America	>Online Course		3		Francesca Spina
2923	44.342-061	Criminal Profiling	>Online Course		3		Allan Roscoe
2924	44.347-011	Police Innovations	M/W	6:00-9:00 pm	3		Timothy Edson
3202	44.360-061	Gender, Race and Crime	>Online Course		3		Gail Beaudoin
2926	44.387-011	Criminal Mind and Behavior	M/W	1:00-4:00 pm	3		Cathy Levey
2928	44.390-031	Criminal Justice Research Methods	>Online Course		3		Kelly Socia
2929	44.395-031	NEW! Criminal Justice Statistics	>Online Course		3		Phil McCormack
3083	44.479-011	Intimate Partner Violence	M/W	6:00-9:00 pm	3		Tonisha Pickney
2935	44.495-011	Criminal Justice Field Studies			3		Gail Beaudoin
3084	44.496-011	Criminal Justice Internship	TBA	TBA	3	P: Junior or Senior Status	Gail Beaudoin
CULTURAL STUDIES			(For additional courses, see Art History and Languages)				
2392	59.105-061	Comparative Arts	>Online Course		3	AH	Julie Sawyer
2393	59.111-001	NEW! Foundation in Cultural Studies	M/W	6:00-8:00 pm	3	AH	Department Faculty
2394	59.203-061	History of Art I: Prehistoric to Medieval Art	>Online Course		3	AHD	Tina Bizzarro
2395	59.204-061	History of Art II: Renaissance to Modern Art	>Online Course		3	AHD	Tina Bizzarro
2400	59.372-061	Italian Mannerism	>Online Course		3	AH	Liana Cheney
2397	59.421-061	Italian Renaissance Art	>Online Course		3	AH	Liana Cheney
DATABASE MANAGEMENT TECHNOLOGIES			(See courses listed under Information Technology)				
ECONOMIC AND SOCIAL DEVELOPMENT OF REGIONS							
2820	57.475-011	Community Conflict Resolution	T/Th	6:30-9:30 pm	3		David Turcotte/M.Zapata Turcotte
ECONOMICS							
2310	49.201-011	Economics I (Microeconomics)	M/W	6:00-9:00 pm	3	P: 90.111; SS	Harjeet Khosla
2312	49.201-061	Economics I (Microeconomics)	>Online Course		3	P: 90.111; SS	Michael Carter
2313	49.201-062	Economics I (Microeconomics)	>Online Course		3	P: 90.111; SS	David Kingsley
2314	49.201-063	Economics I (Microeconomics)	>Online Course		3	P: 90.111; SS	Gary Lyn
2315	49.202-011	Economics II (Macroeconomics)	T/Th	6:00-9:00 pm	3	P: 90.111; SS	Patricia Machado
2317	49.202-061	Economics II (Macroeconomics)	>Online Course		3	P: 90.111; SS	Michael Carter
2318	49.202-062	Economics II (Macroeconomics)	>Online Course		3	P: 90.111; SS	Tommaso Tempesti
2319	49.202-063	Economics II (Macroeconomics)	>Online Course		3	P: 90.111; SS	Gary Lyn
2320	49.211-011	Statistics for Business and Economics I	T/Th	6:00-9:00 pm	3	P: 92.122 or equivalent; SS	Harjeet Khosla
2323	49.211-061	Statistics for Business and Economics I	>Online Course		3	P: 92.122 or equivalent; SS	Mohammad Quayes
2325	49.303-061	Microeconomic Theory	>Online Course		3	P: 49.201	Mohammad Quayes
2326	49.304-061	Macroeconomic Theory	>Online Course		3	P: 49.202	Svetlana Smirnov
2328	49.316-061	Investments: Instruments and Strategies	>Online Course		3	P: 49.202; This course is not available to MSB students. Management students should register for 61.300.	David Ornstil
2329	49.318-061	Financial Markets and Monetary Policy	>Online Course		3	P: 49.202 or equivalent	Ronald Olive
2330	49.325-061	United States Economic History	>Online Course		3	P: 49.201 or 49.202; SSD	Carol McDonough
ELECTRICAL AND COMPUTER ENGINEERING							
3009	16.201-081	Circuit Theory I	M/W	1:00-4:00 pm	3	P: 32.132; C: 16.207	John Palma
3010	16.202-051	Circuit Theory II	M/W	1:00-4:00 pm	3	P: 16.201 C or better; C: 16.208	Frank Tredeau
3011	16.207-051	Basic Electrical Engineering Laboratory I	TBA	TBA	3	C: 16.201	Joel Therrien
3012	16.208-061	Basic Electrical Engineering Laboratory II	TBA	TBA	3	P: 16.207; C: 16.202	Joel Therrien
3014	16.265-011	Logic Design	T/Th	9:00 am-12:00 pm	3	P: 25.108 or 91.101 and C- or better in 92.132, EE,CP,CS, ME majors only	Anh Tran
3018	16.355-011	Electromechanics	T/Th	9:00 am-12:00 pm	3	P: 16.202, 95.144	John Palma
3019	16.360-011	Engineering Electromagnetics I	T/Th	1:00-4:00 pm	3	P: 16.202	Ted Grosch
3020	16.362-011	Signals & Systems I	T/Th	2:00-5:00 pm	3	P: 92.236, 16.202	Mufeed Mah'd
3021	16.364-081	Engineering Mathematics	M/W	9:00 am-12:00 pm	3	P: 16.236, 16.201	Frank Tredeau
3022	16.365-051	Electronics I	M/W	1:00-4:00 pm	3	P: 16.202, 95.144, 92.231	Ted Grosch
3023	16.366-051	Electronics II	M/W	1:00-4:00 pm	3	P: 16.365; C: 16.312	Michael Darish
3024	16.428-011	Alternative Energy Sources	M/W	6:00-9:00 pm	3	P: Permission of instructor	Ziyad Salameh
3025	16.429-011	Electric Vehicle Technology	T/Th	6:00-9:00 pm	3	P: Permission of instructor	Ziyad Salameh
3026	16.431-011	RF Design	T/Th	6:00-9:00 pm	3	P: 13.360; Instructor permission	Tenneti Rao
3028	16.460-011	Biomedical Instrumentation	T/Th	2:00-5:00 pm	3		Mufeed Mah'd
3029	16.461-011	Engineering Electromagnetics II	M/W	1:00-4:00 pm	3	P: 16.360	Levent Sevgi
3030	16.474-061	Principles of Solid State Devices	>Online Course		3	P: 16.365	Craig Armiento
3031	16.480-011	Microprocessor Systems II & Embedded Systems	T/Th	2:00-5:00 pm	3	P: 16.311, 16.317, 16.365	Yan Lao
ELECTRONIC ENGINEERING TECHNOLOGY							
2268	17.427-011	Digital Signal Processing	M/W	6:00-9:00 pm	3		Albert Paradis
ENGLISH							
2956	42.101-031	College Writing I	>Online Course		3	P: Requires MS Word	Mary Gormley

SUMMER I UNDERGRADUATE COURSES

ISIS Class No.	Course No.	Title	Days	Time	Cr (Con)	P: Prerequisite C: Corequisite/Comments	Instructor
2721	42.101-061	College Writing I			3	P: Requires MS Word	Erin Bingman
2722	42.101-062	College Writing I			3	P: Requires MS Word	Richard Keating
2723	42.102-011	College Writing II	M-Th	10:15 am-12:15 pm	3	P: 42.101	Milena Gueorguieva
2727	42.102-031	College Writing II			3	P: 42.101; requires MS Word	Matthew Hurwitz
2782	42.102-032	College Writing II			3	P: 42.101; requires MS Word	Samuel Ruddick
2725	42.102-061	College Writing II			3	P: 42.101; requires MS Word	Marialana Salamone
2726	42.102-062	College Writing II			3	P: 42.101; requires MS Word	Guy Peartree
2787	42.212-061	The Short Story			3	P: 42.102; AH; requires MS Word	Jeffrey VanderVeen
2790	42.216-061	Monsters, Apes and Nightmares			3	P: 42.102; AH; requires MS Word	Todd Avery
2791	42.217-061	The Horror Story			3	P: 42.102; AH; requires MS Word	Lisa Mahoney
2795	42.224-061	Business Writing			3	P: 42.102; requires MSWord	Claudine Perreault
2796	42.226-061	Technical and Scientific Communication			3	P: 42.102	Katherine Melissa McIssac
2797	42.281-061NEW!	British Literary Traditions			3	P: 42.102	Marlowe Miller
2798	42.282-061NEW!	American Literary Traditions			3	P: 42.102	Keith Mitchell
2799	42.302-061	Creative Writing: Fiction			3	P: 42.102	Lori Grace
2800	42.317-061NEW!	British Literature of the Twentieth Century			3	P: 42.102; AH	Ashlie Sponenberg
2804	42.349-061	Arthurian Literature			3	P: 42.102; AH	Charles Archer
2805	42.370-061	Contemporary American Fiction			3	P: 42.102	Todd Tietchen
ENVIRONMENTAL EARTH AND ATMOSPHERIC SCIENCES							
2827	87.115-011	Astronomy	T/Th	7:00-10:00 pm	3		Arnold O'Brien
2828	87.117-011	Astronomy Lab	M/W	7:00-10:00 pm	1(2)		Arnold O'Brien
GRAPHIC DESIGN AND DIGITAL IMAGING			(See courses listed under Art and Information Technology.)				
HEALTH							
2959	30.102-011	Introduction to Public Health	M-Th	10:00 am-12:00 pm	3	SSD	Nicole Champagne
2271	30.210-011	Clinical Calculations	Wed	6:00-8:00 pm	1		Department Faculty
2272	30.306-031	Introduction to Gerontology			3	SS	Ramraj Gautam
3072	30.308-011	Global Health	T/TH	9:00 am-12:00 pm	3	SSD	Maria Brunette
3061	30.320-031	Legal Issues in Nursing			3		Pauline Ladebauche
3060	31.201-061	Community Health and Environment			3	Open to all students	Nicole Champagne
2835	35.101-011	Human Anatomy and Physiology I	T/Th	6:00-9:15 pm	3	C: 35.103; SCL	Paul Fierimonte
2839	35.103-011	Human Anatomy and Physiology Laboratory I	T/W/Th	2:00-6:00 pm	1(3)	C: 35.101; SCL	Karen Hammerstone
2846	35.251-011	Physiological Chemistry I	M/W	10:00 am-12:00 pm 1:00-3:00 pm	3	C: 35.253; P: 35.102	Javier Horta
2848	35.253-011	Physiological Chemistry Laboratory I	T/Th	9:00 am-12:00 pm	1(3)	C: 35.251	Javier Horta/Aaron Stella
3137	36.350-011	Human Biochemistry	M-Th	10:15 am-12:15 pm	3	P: 35.252 or equivalent	Thomas Wilson
2286	38.315-011	Kinesiology	M-Th	8:00-10:00 am	3	P: for non-Exercise Physiology seniors only	Keith Hallbourg
2285	38.420-091	Advanced Study in Exercise Physiology	TBA	TBA	3	P: for UML Exercise Physiology seniors only	Michelle Fox
HISTORY							
2274	43.105-011	Western Civilization I	M-Th	10:15 am-12:15 pm	3	AHD	Leonid Blickstein
2277	43.105-031	Western Civilization I			3	AHD	Andrew Drenas
2278	43.106-011	The Modern World	M-Th	12:30-2:30 pm	3	AHD	Leonid Blickstein
2280	43.106-012	The Modern World	M/W	6:00-9:00 pm	3	AHD	Christoph Strobel
2283	43.107-061	World Civilization I			3		David Kalivas
2284	43.111-011	United States History to 1877	M-Th	12:30-2:30 pm	3	AHD	Abigail Chandler
2290	43.237-011	Europe in the Twentieth Century	M-Th	10:15 am-12:15 pm	3		Fletcher Smith
2291	43.242-061	World War II			3		Donald Mattheisen
2292	43.270-061	Women in American History			3		Diane Lewis
2294	43.274-061	Native American History			3		Diane Lewis
2295	43.275-011	African-American History	M/W	7:00-10:00 pm	3	AHD	Gregory Washington
2297	43.296-011	United States Diplomatic History	M-Th	8:00-10:00 am	3		Fletcher Smith
2300	43.352-011	The Coming of the American Revolution	T/Th	6:00-9:00 pm	3		Robert Lemire
2302	43.365-011	United States History since 1960	T/Th	6:00-9:00 pm	3		Stephen Russell
2303	43.365-031	United States History since 1960			3		David Cecere
2306	43.369-031	Russia in the Nineteenth and Twentieth Centuries			3		George Deak
2307	43.373-031	Nazi Germany			3		W. Scott Hoerle
2308	43.391-011	America and the World	T/Th	7:00-10:00 pm	3		Harry Hubbard
INFORMATION TECHNOLOGY			(Including Multimedia and Computer Graphics)				
2962	90.160-061	❖ Introduction to Information Systems			3	TN	Lisa Panagopoulos
2963	90.160-062	❖ Introduction to Information Systems			3	TN	Andrew Garside
1964	90.180-061	❖ Applications Software: Microsoft® Excel			3	P: 90.202 or equivalent; requires MS® Excel 2010	Robin Desmond
2965	90.202-061	❖ Microsoft® Office			3	Requires MS Office 2010 or higher	Robin Desmond
2966	90.202-062	❖ Microsoft® Office			3	Requires MS Office 2010 or higher	Terry Bass
2967	90.211-061	❖ Introduction to Programming with C Part I			3	No previous prog. experience required; ANSI C/C++ standard compiler required	James Sears
2968	90.212-061	❖ Introduction to Programming with C Part II			3	P: 90.211; requires ANSI C/C++ standard compiler	James Sears
2969	90.225-031	❖ Survey of Programming Languages			3		Timothy Niesen
2698	90.230-031	❖ Introduction to Multimedia			3	P: Basic Mac or Windows proficiency	Robert Graham
2823	90.231-061	❖ Graphics for Multimedia and the Web/Windows			3	P: 90.230; requires Photoshop 5.0 or higher; access to a scanner	Randy Howe
2824	90.232-061	❖ Desktop Video Production			3	90.230, familiarity with FTP software helpful; requires Adobe Premiere Elements II for Mac or PC	Michael Lucas
2825	90.238-061	❖ Website Development: Microsoft Expression Web/Windows			3		Judy Feeney
3186	90.247-061NEW!	Web Authoring: Adobe Flash			3	P: 90.230 or 90.231 helpful; programming familiarity; Requires Adobe Flash CS6	Joanna Smith
2826	90.248-061	❖ Website Database Implementation			3	P: 90.171 and 90.220; or equivalent background	Marc Cobery
2699	90.250-031	❖ E-Commerce on the Web			3		Robert Graham
2970	90.267-061	❖ C Programming			3	P: Previous programming experience; requires Ansi C/C++ compiler software	Timothy Niesen
2971	90.268-061	❖ C++ Programming			3	P: 90.267 or 90.212; requires C++ compiler software	Lance Smith
2972	90.271-031	❖ C# Programming			3		John Puopolo
2973	90.291-061	❖ Introduction to DHTML			3		William Dubie

SUMMER I UNDERGRADUATE

ISIS Class No.	Course No.	Title	Days	Time	Cr (Con)	P: Prerequisite C: Corequisite/Comments	Instructor
2974	90.297-061	Introduction to Java Programming		>Online Course	3	P: Previous programming experience required; req. J2SE Development Kit (JDK) 6.0 or higher	Lance Smith
2975	90.301-061	Java™ Programming/Windows		>Online Course	3	P: 90.297 or 90.268	Elizabeth Kramer
2976	90.302-061	JavaScript		>Online Course	3	P: 90.291 or knowledge of HTML	David Sciuto
2632	90.304-011	Oracle/JavaWeb Development	Sat	9:00 am-12:00 pm	3		Leon Xia
		(Blended course: Held online and on UML campus. Face-to-Face meetings on Saturdays)					
2977	90.305-061	Survey of Perl/Python/PHP		>Online Course	3		Spencer Marks
2978	90.306-061	Introduction to XML		>Online Course	3	P: 90.291; req. XMLwriter	David Sciuto
2979	90.308-061	Software Development with Effective Java and Test Driven Development		>Online Course	3		Spencer Marks
2980	90.311-061	Introduction to the LINUX/UNIX Operating System		>Online Course	3		Fred Vegliante
2981	90.312-061	Shell Scripting		>Online Course	3	P: 90.311, and 90.267 or 90.212	Michael Richards
2982	90.321-061	LINUX/UNIX System Administration		>Online Course	3	P: 90.312	Michael Richards
2983	90.346-061	Digital Media Delivery		>Online Course	3	P: Basic understanding of HTML and FTP; basic Internet headset/microphone req.	Michael Lucas
2984	90.364-031	Problem Solving with C		>Online Course	3	P: 90.212 or 90.267; requires Ansi C/C++ software	Sean McGowan
2985	90.385-061	Introduction to Information Security		>Online Course	3	P: 90.160 and 90.202, or equivalent	William Vales
2633	90.459-011	PL/SQL I: Introduction to Oracle 11g PL/SQL	Sat	1:00-4:00 pm	3		Leon Xia
		(Blended course: Held online and on UML campus. Face-to-Face meetings on Saturdays)					
2986	90.460-061	Computer Ethics		>Online Course	3		Sean McGowan
2987	90.461-061	LAN/WAN Technologies		>Online Course	3	P: 90.267 or previous prog. experience	Edwin Barnes
2988	90.462-061	TCP/IP and Network Architecture		Online Course	3	P: 90.461	Edwin Barnes
2634	90.469-001	Oracle 11gR2 High Performance and Internals	Thurs	6:30-9:20 pm	3		Michael Cummings
		(Blended course: Held online and on UML campus. Face-to-Face meetings on Thursdays)					
2989	90.480-031	Project-Based Information Systems		>Online Course	6	P: Junior status; can be used to replace the sequence of 90.477 and 90.478; requires Microsoft PowerPoint or Open Office	Jon Forsyth

Please note courses with a 91- and 94- prefix can be used as Information Technology electives in the Information Technology program
*Students will not receive credit for both 90.267 and the 90.211/90.212 sequence.

LANGUAGES

2370	50.101-031	French 1 and Culture		>Online Course	3		Danielle Boutwell
2371	50.102-031	French 2 and Culture		>Online Course	3	P: 50.101	Taryn Bentaous
2372	50.211-031	French 3 and Culture		>Online Course	3	P: 50.102 or equivalent	Danielle Boutwell
2373	50.212-031	French 4 and Culture		>Online Course	3	P: 50.211 or equivalent	Taryn Bentaous
2374	54.101-061	Spanish 1 and Culture		>Online Course	3		Kimberly Vitchkoski
2376	54.101-062	Spanish 1 and Culture		>Online Course	3		Beatriz Alvarado
2377	54.102-061	Spanish 2 and Culture		>Online Course	3	P: 54.101 or equivalent	Kimberly Vitchkoski
2378	54.102-062	Spanish 2 and Culture		>Online Course	3	P: 54.101 or equivalent	Soledad Guzman
2379	54.211-061	Spanish 3 and Culture		>Online Course	3	P: 54.102 or equivalent; requires headset	Soledad Guzman
2380	54.212-061	Spanish 4 and Culture		>Online Course	3	P: 54.211 or equivalent; requires headset	Francisca Gonzalez-Arias

LEGAL STUDIES AND PARALEGAL STUDIES

2645	41.103-061	Introduction to Paralegal Studies		>Online Course	3		Donna Zils Banfield
2953	41.234-011	Criminal Law	M/W	2:45-5:45 pm	3		Paul King
2648	41.261-031	Introduction to Legal Concepts		>Online Course	3		Walter Toomey
2952	41.261-032	Introduction to Legal Concepts		>Online Course	3		Michael Jones
2658	41.262-011	Introduction to Business Law	M/W	6:30-9:30 pm	3	SS	Paul King
2659	41.365-061	Legal Environment of Business		>Online Course	3		Sharon Sawyer
2660	41.370-011	Real Estate Law	M/W	9:30 am-12:30 pm	3		Nancy Aiken
2661	41.370-061	Real Estate Law		>Online Course	3		Patricia Sullivan Talty
2951	41.372-011	Sports, Entertainment and Art Law	T/W	9:30 am-12:30 pm	3		Michael Jones
2662	41.376-061	Family Law		>Online Course	3		Michelle Bazin
2663	41.381-061	Women and the Law		>Online Course	3	Requires MS Word	Donna Zils Banfield
2664	41.387-011	Legal Research Methods	T/Th	6:00-9:00 pm	3		Michelle Bazin
2665	41.390-061	Litigation		>Online Course	3		Ellen Curran
2666	41.392-061	Wills, Trusts and Estates		>Online Course	3		Walter Toomey
2667	41.490-061	Legal Aspects of Cyberspace		>Online Course	3		Walter Toomey
2954	41.497-011	The Paralegal Practicum	TBA	TBA	3		Michael Jones

MANAGEMENT

2883	61.300-081	Investments		>Online Course	3	P: BSBA program and Junior Standing	Frank Andrews
2884	61.301-061	Business Finance		>Online Course	3	P: 60.201, 49.201, 49.202; COM filter courses, BSBA major or Business Minor/BSIT/ASIT with 54+ credits	Steven Freund
2885	61.303-061	Methods of Financial Analysis		>Online Course	3	P: 61.301, BSBA majors	Ravi Jain
2886	61.431-011	Capital Planning	M/W	6:00-9:00 pm	3	P: 61.301, 61.303, BSBA majors	Saira Latif
2887	61.491-061	International Finance		>Online Course	3	P: 61.301	Steven Freund
2892	62.201-011	Marketing Principles	T/Th	6:00-9:00 pm	3	P: 47.101, 48.101, 49.201	Deborah Finch
2893	62.201-061	Marketing Principles		>Online Course	3	P: 47.101, 48.101, 49.201	Joan Crooker
2896	64.361-061	Starting New Ventures		>Online Course	3		Yi Yang
2903	66.301-081	Organizational Behavior		>Online Course	3	P: MSB filter courses; or Business minor and 60.201 and 49.201	Stuart Freedman
2904	66.310-081	Human Resources Management		>Online Course	3	P: 66.301; preference MG concentrators	Brooke Hargreaves-Heald
2906	66.435-061	Comparative Management		>Online Course	3	P: 66.301	David Lewis
2907	66.490-011	Strategic Management	T/Th	6:00-9:00 pm	3	P: Graduating seniors only; 61.301, 62.201, 63.301, 63.371, 66.301 BSBA Students	Scott Latham

MATHEMATICS

2341	90.111-011	Fundamentals of Algebra	M/W	7:00-10:00 pm	3		Terence Watterson
2342	92.111-011	Quantitative Reasoning	M-Th	10:15 am-12:15 pm	3	Two years of high school algebra; Liberal Arts majors only; no credit toward a degree in science or engineering; MA	Alan Kaplan
2343	92.120-011	Precalculus Mathematics I	T/Th	6:30-9:30 pm	3	P: 90.111 or equivalent or satisfactory score on the Math Placement Exam given the first evening of class; MA	Candice Weston
2345	92.120-061	Precalculus Mathematics I		>Online Course	3	P: 90.111 or equivalent or satisfactory score on the Math Placement Exam given the first evening of class; MA	Alan Doerr
2346	92.121-011	Management Precalculus	M-Th	8:00-10:00 am	3	MA	Alan Kaplan

SUMMER I UNDERGRADUATE

ISIS Class No.	Course No.	Title	Days	Time	Cr (Con)	P: Prerequisite C: Corequisite/Comments	Instructor
2348	92.122-011	Management Calculus	M-Th	10:15 am-12:15 pm	3	P: 92.119 or 92.120 or 92.121 or equivalent; not for science or engineering majors; MA	Department Faculty
2349	92.122-012	Management Calculus	M/W	6:00-9:00 pm	3	P: 92.119 or 92.120 or 92.121 or equivalent; not for science or engineering majors; MA	William Drury
2351	92.125-011	Calculus A	T/Th	6:00-9:00 pm	3	P: 92.123; MA	Theresa Schille
2353	92.129-011	Calculus IB	M-F	8:00-10:00 am	4	P: 92.128; MA, for UML day students only	Charles Ormsby
2354	92.131-011	Calculus I	M-F	8:00-10:00 am	4	MA	John Lahoud
2355	92.131-012	Calculus I	M-F	10:15 am-12:15 pm	4	MA	John Lahoud
2356	92.131-013	Calculus I	M-F	10:15 am-12:15 pm	4	MA	Ronald Brent
2359	92.132-011	Calculus II	M-F	8:00-10:00 am	4	P: 92.131; MA	Marvin Stick
2360	92.132-012	Calculus II	M-F	10:15-12:15 pm	4	P: 92.131; MA	Marvin Stick
2361	92.132-013	Calculus II	M-F	10:15 am-12:15 pm	4	P: 92.131; MA	J. Peter Weston
2364	92.231-011	Calculus III	M-F	10:15 am-12:15 pm	4	P: 92.132	Vidhu Prasad
2366	92.234-011	Differential Equations	T/Th	6:00-9:00 pm	3	P: 92.225 or 92.132	Rida Mirie
2367	92.234-012	Differential Equations	M/W	6:00-9:00 pm	3	P: 92.225 or 92.132	Rida Mirie
2369	92.236-011	Engineering Differential Equations	M-F	8:00-10:00 am	3(4)	P: 92.225 or 92.132	Vidhu Prasad
2398	92.283-011	Introduction to Statistics	M-Th	8:00-10:00 am	3	P: 92.120 or equivalent; MA	Alexander Olsen
2399	92.283-012	Introduction to Statistics	M/W	6:00-9:00 pm	3	P: 92.120 or equivalent; MA	Alexander Olsen
2402	92.283-013	Introduction to Statistics	M-Th	10:15 am-12:15 pm	3	P: 92.120 or equivalent; MA	Ravi Montengro
2405	92.283-031	Introduction to Statistics	>Online Course		3	P: 92.120 or equivalent; MA	Ann Marie Hurley
2406	92.283-032	Introduction to Statistics	>Online Course		3	P: 92.120 or equivalent; MA	Ann Marie Hurley
2407	92.321-011	Discrete Structures I	M/W	6:00-9:00 pm	3	P: 92.131	Anthony Penta
2413	92.321-061	Discrete Structures I	>Online Course		3	P: 92.131	Alan Doerr
2416	92.385-011	Applied Statistics	M/W	6:00-9:00 pm	3	P: 92.132	Alexander Frye
2419	92.386-011	Probability and Statistics I	M/W	6:00-9:00 pm	3	P: 92.225 or 92.132	Chittur Venkatesh
2455	92.386-012	Probability and Statistics I	M-Th	12:30-2:30 pm	3	P: 92.225 or 92.132	Ravi Montengro
2464	92.475-011	Senior Seminar II	TBA	TBA	3	P: 92.375 or 92.474	Alan Doerr
*Fundamentals of Algebra (90.111) is a preparatory course and cannot be credited toward a degree program at the University of Massachusetts Lowell. **Credit is given for only one of the two following courses: 92.120 or 92.121. UML day students must have approval from their Department Chairperson before taking courses with a 90 prefix.							
MECHANICAL ENGINEERING							
2994	22.211-011	Statics	T/Th	6:00-9:00 pm	3	P: 92.132, 95.141	Michael Shenoda
2996	22.213-011	Dynamics (alternate 14.205)	M-Th	8:00-10:00 am	3	P: 22.211, 92.132	Edward Hajduk
2997	22.242-011	Thermodynamics	T/Th	7:00-10:00 pm	3	P: 92.132, 95.245, 84.117	John Colluccini
2999	22.321-011	Mechanical Design I	M-Th	12:30-2:30 pm	3(4)	P: 22.213; C: 22.201	Cynthia Mitchel
3002	22.342-011	Convective Processes	M-Th	10:15 am-12:15 pm	3	P: 22.341, 22.381	Eugene Niemi Jr
3003	22.361-011	Mathematical Methods for Mechanical Engineers	M-Th	8:00-10:00 am	3	P: 92.132	John McKelliget
3004	22.381-011	Fluid Mechanics	M/W	9:00 am-12:00 pm	3	P: 22.213, 22.242, 92.231, 92.236	Daniel Sullivan
3005	22.403-011	Mechanical Engineering Lab II	M-Th	2:45-5:30 pm	3(4)	P: 22.302, 22.311, 22.341, 22.381	Daniel Sullivan
NURSING							
2271	30.210-011	Clinical Calculations	Wed	6:00-8:00 pm	1		Department Faculty
2272	30.306-031	Introduction to Gerontology	>Online Course		3	SS	Ramraj Gautam
3072	30.308-011	Global Health	T/TH	9:00 am-12:00 pm	3	SSD	Maria Brunette
3061	30.320-031	Legal Issues in Nursing	>Online Course		3		Department Faculty
2802	33.301-071	Research in Nursing and Health Care (Blended course, Held online and on UML campus. Face to face dates: 5/21, 5/28, 6/4, 6/11, and 6/25)	Tue	1:00-4:00 pm	3		Margaret Knight
OPERATIONS AND INFORMATION SYSTEMS							
2458	63.210-011	Operations Analysis Techniques	T/Th	8:00-11:00 am	3	P: 49.211 or 92.183 or 92.283	Joshua Levy
2474	63.210-061	Operations Analysis Techniques	>Online Course		3	P: 49.211 or 92.183 or 92.283	Mustafa Vaid
2803	63.301-011	Management Information Systems	M/W	3:30-6:20 pm	3	P: COM Filter courses; or Business minor and 60.201 and 49.201	Darshan Singh
2477	63.301-061	Management Information Systems	>Online Course		3	P: COM Filter courses; or Business minor and 60.201 and 49.201	David Lewis
2485	63.371-011	Operations Management	M/W	8:00-11:00 am	3	P: 63.210	Joshua Levy
2489	63.371-081	Operations Management	>Online Course		3	P: 63.210	M. Riaz Khan
PARALEGAL STUDIES (See also Legal Studies)							
PHYSICS							
2530	95.103-011	General Physics I	M-F	8:00-10:00 am	3	C: 96.103; SCLO	Arthur Mittler
2532	95.121-001	Exploring the Universe	M/W	4:00-6:00 pm	3		Kathleen Kraemer
2563	95.141-011	Physics I	M-F	8:00-10:00 am	3(4)	C: 92.131, 96.141; SCL	F. Raymond Hardy
2610	95.144-011	Physics II	M-F	8:00-10:00 am	3(4)	P: 95.141. C: 92.132, 96.144	Kunnat Sebastian
2613	96.103-011	General Physics I Lab	T/Th	1:00-4:00 pm	1(2)	C: 95.103 or 95.201; SCL	Arthur Mittler
2614	96.103-012	General Physics I Lab	T/Th	1:00-4:00 pm	1(2)	C: 95.103 or 95.201; SCL	Department Faculty
2616	96.121-001	Exploring the Universe Laboratory	W	7:00-9:00 pm	1(2)	P: or C: 95.121, SCL	Department Faculty
2617	96.141-011	Physics I Lab	M/W	1:00-4:00 pm	1(2)	C: 95.141; SCL	F. Raymond Hardy
2621	96.144-011	Physics II Lab	T/Th	1:00-4:00 pm	1(2)	P: 96.141. C: 95.144	Department Faculty
2628	99.101-061	Radiation and Life	>Online Course		3	SCLO	Thomas Regan
2629	99.102-011	Radiation and Life Laboratory	M/W/F	3:30-5:30 pm	1(2)	P: or C: 99.101; SCLO	Thomas Regan
PHILOSOPHY							
2635	45.201-011	Introduction to Philosophy	M/W	6:00-9:00 pm	3	AHE	John Kaag
2638	45.201-061	Introduction to Philosophy	Online Course		3	AHE	Donald LeBlanc
2640	45.203-011	Introduction to Ethics	M/W	6:00-9:00 pm	3	ADE	Carol Hay
2642	45.203-031	Introduction to Ethics	Online Course		3	ADE	Deborah White
2643	45.203-032	Introduction to Ethics	Online Course		3	ADE	Christopher Phillips
PLASTICS							
3138	26.247-011	Thermodynamics	M-TH	8:00-10:00 am	3	P: 92.132, 95.141	Ross Stacer
2961	26.314-001	Fluid Flow	Tues	6:00-9:00 pm	3	P: 92.132	Carol Barry
2269	27.451-011	Selected Topics I	M/W	7:00-10:00 pm	3		Department Faculty
2270	27.452-011	Selected Topics II	T/Th	7:00-10:00 pm	3		Department Faculty

SUMMER I UNDERGRADUATE

ISIS Class No.	Course No.	Title	Days	Time	Cr (Con)	P: Prerequisite C: Corequisite/Comments	Instructor
POLITICAL SCIENCE							
2702	46.101-011	Introduction to American Politics	M-Th	10:15 am-12:15 pm	3	SS	George Anthes
2704	46.101-061	Introduction to American Politics	>Online Course		3	SS	Jason Carter
2705	46.110-011	Introduction to Politics	T/Th	6:00-9:00 pm	3	SSD	Benjamin Williams
2707	46.121-011	Introduction to International Relations	M/W	6:00-9:00 pm	3	SSD	Jason Carter
2708	46.121-061	Introduction to International Relations	>Online Course		3	SSD	Don Leonard
2710	46.218-061	Introduction to Politics and Sports	>Online Course		3	SDE	Jeffrey Gerson/Ron Borges
2712	46.222-061	Politics of the Internet	>Online Course		3		Christopher Wilkinson
2713	46.230-061	Law and the Legal System	>Online Course		3		Patricia Talty
2715	46.265-031	State and Local Politics	>Online Course		3		Dennis Deeb
2716	46.316-061	Politics and Film	>Online Course		3		Jeffrey Gerson
3154	46.338-011	Political Participation	T/TH	7:00-10:00 pm	3		Joshua Dyck
PSYCHOLOGY							
2728	47.101-011	General Psychology	M/W	6:00-9:00 pm	3	SS	Athena Crowley
2730	47.101-061	General Psychology	>Online Course		3	SS; requires MS Word	John Kendrick
2731	47.101-062	General Psychology	>Online Course		3	SS; requires MS Word	Sara Cappello
2732	47.209-061	NEW! Social Psychology	>Online Course		3	P: or C: 47.101; D	Jason Lawrence
2733	47.232-061	Psychology of Personality	>Online Course		3	P: or C: 47.101; SS; requires MS Word	Joan Cannon
2734	47.255-061	Community Psychology	>Online Course		3	P: or C: 47.101; SSD	Erika Sanborne
2735	47.260-011	Child and Adolescent Development	M-Th	8:00-10:00 am	3	P: or C: 47.101; SS	Cristina Davy
2737	47.260-061	Child and Adolescent Development	Online Course		3	P: or C: 47.101; SS	Patricia Trela
2738	47.269-011	Research I: Basics	T/Th	6:00-9:00 pm	3	P: 47.101	Alice Frye
2739	47.269-061	NEW! Research I: Basics	>Online Course		3	P: 47.101	Doreen Arcus
2741	47.272-011	Abnormal Psychology	M-Th	10:15 am-12:15 pm	3	P: 47.101; SS	Jane Theriault
2742	47.272-061	Abnormal Psychology	>Online Course		3	P: 47.101; SS	Georgia Klamon-Miller
2743	47.273-011	Brain, Mind and Behavior (Blended Course: Mon and Wed in classroom; Tues and Thurs online)	M/W	8:00-10:00 am	3	P: 47.101	Mary Duell
2744	47.277-061	Sensation and Perception	>Online Course		3	P: 47.101	David Landrigan
2747	47.335-061	Psychology and Women	>Online Course		3	P: 47.101; SSD	Mary Francis Drake
2748	47.351-061	Human Sexuality	>Online Course		3	P: 47.101; SS	Mary Duell
2749	47.360-061	Adult Development and Aging	>Online Course		3	P: 47.101, and 47.260 or equivalent, SS	Meredith Stanford-Pollock
2750	47.363-061	NEW! Introduction to Disability Studies	>Online Course		3	P: 47.101; SSDE	Katherine Fox
2751	47.369-011	Research II: Statistics	M-Th	10:15 am-12:15 pm	3	P: 47.101, grade of C or better in 47.269	Stephen Underwood
2752	47.369-031	Research II: Statistics	>Online Course		3	P: 47.101, grade of C or better in 47.269	Kenneth Lombart
2754	47.375-031	Research III: Laboratory	>Online Course		3	P: 47.269, 47.369	Mary Duell
2740	47.472-061	Seminar: Personality	>Online Course		3	P: 47.101, 47.269	Joan Cannon
2755	47.473-011	Seminar: Social Psychology (Blended Course: Tues and Thurs in classroom; Mon and Wed online)	T/TH	12:30-2:30 pm	3	P: 47.101, and 47.269	Meredith Stanford-Pollock
2757	47.477-061	Seminar: Contemporary Trends - Addictions	>Online Course		3	P: 47.101; and 47.269	Richard Siegel
SOCIOLOGY							
2293	48.101-011	Introduction to Sociology	T/Th	7:00-10:00 pm	3	SSDE	Levon Chorbajian
2299	48.112-011	Sociology Goes to the Movies	M/W	7:00-10:00 pm	3		William Lekas
2301	48.220-061	Self-Assessment and Career Development	>Online Course		3		Mary Francis Drake
2305	48.255-011	Sociology of Deviance	M-Th	10:15 am-12:15 pm	3	SS	Arturo Ramos Dalmau
2990	48.270-011	Self and Society	M-Th	8:00-10:00 am	3	SS	Stephanie Laudone Jones
2324	48.317-011	Sociology of Genocide	M/W	7:00-10:00 pm	3	SSDE	Christopher Cass
2543	48.345-011	Urban Sociology	T/Th	7:00-10:00 pm	3		Demetrius Lamar
2336	48.345-061	Urban Sociology	>Online Course		3		Demetrius Lamar
WEBSITE DESIGN AND DEVELOPMENT			(See courses listed under Information Technology)				

Summer Session II | July 8-August 15

M/W Classes begin on Monday, July 8 and include 2 FRIDAYS: July 19 and August 2 at the regularly scheduled hours.
T/Th Classes begin on Tuesday, July 9 and include 2 FRIDAYS: July 26 and August 9 at the regularly scheduled hours.

Please check course numbers and prerequisites to ensure enrollment in the correct class.

ACCOUNTING							
2785	60.302-021	Intermediate Accounting II	T/Th	6:00-9:00 pm	3	P: 60.301	SangHyun Suh
ART/COMPUTER GRAPHICS							
2831	70.496-021	Practicum/Internship	TBA	TBA	3(6)		James Veatch
ART HISTORY							
3170	58.101-021	Art Appreciation	T/TH	6:00-9:00 pm	3	AH	Department Faculty
BIOLOGICAL SCIENCES							
2335	83.101-021	Life Science I	T/Th	6:30-9:30 pm	3		Maya Trivedi
CHEMISTRY							
2858	84.112-021	General Chemistry II	T/Th	7:00-10:00 pm	3	P: 84.111 or permission of instructor; C: 84.114; SCL	Daniel Lavoie
2860	84.114-021	General Chemistry Laboratory II	T/Th	3:30-6:30 pm	1(3)	P: 84.113 or permission of instructor; C: 84.112; SCL	Athena Letsou
2863	84.122-021	Chemistry II	M/W	6:00-10:00 pm	3(4)	P: 84.121 and 84.123. C: 84.124; SCL	Stephen Theberge
2867	84.124-021	Chemistry II Laboratory	T/Th	7:00-10:00 pm	1(3)	P: 84.123; C: 84.122; SCL	Paul Damour
2868	84.124-022	Chemistry II Laboratory	T/Th	7:00-10:00 pm	1(3)	C: 84.122; SCL	Daniel Pyburn
2876	84.222-021	Organic Chemistry IIA	M/T/Th	2:00-5:15 pm	3(4)	P: 84.221; C: 84.230	Gene Davis
2877	84.222-022	Organic Chemistry IIA	T/Th	6:00-10:00 pm	3(4)	P: 84.221; C: 84.230	Gene Davis
2878	84.222-023	Organic Chemistry IIA	T/Th	6:00-10:00 pm	3(4)	P: 84.221; C: 84.230	Javier Horta
2869	84.222-024	Organic Chemistry IIA	M/W/F	2:00-5:15 pm	3(4)	P: 84.221; C: 84.230	Khalilah Reddie
2880	84.230-021	Organic Chemistry II A Laboratory	T/Th	6:15-9:15 pm	1(3)	P: 84.229; C: 84.222	Hongning Fu
2881	84.230-022	Organic Chemistry II A Laboratory	M/W	6:15-9:15 pm	1(3)	P: 84.229; C: 84.222	Hongning Fu
2882	84.230-023	Organic Chemistry II A Laboratory	M/W	6:15-9:15 pm	1(3)	P: 84.229; C: 84.222	Kim Shih

SUMMER II UNDERGRADUATE COURSES

ISIS Class No.	Course No.	Title	Days	Time	Cr (Con)	P: Prerequisite C: Corequisite/Comments	Instructor
CIVIL ENGINEERING							
3047	14.204-021	Strength of Materials (alternate 22.212)	M-Th	8:00-10:00 am	3	P: 14.203	Edward Hajduk
CHEMICAL ENGINEERING							
3054	10.202-021	Energy Balances and Introduction to Thermodynamics	M-Th	10:15 am-12:15 am	3	P: 10.201	Nirupama Kattamuri
3139	10.310-021 NEW!	Separation Processes with Mass Transfer	M-Th	8:00-10:00 am	3	P: 10.311, 92.234 or 92.236	Zhiyong Gu
COMPUTER SCIENCE / (See also Information Technology)							
2700	91.100-021	Media Computing	M-Th	8:00-10:00 am	3		Byung Kim
Please note courses with a 91- prefix can be used as Information Technology electives in the Information Technology program							
CRIMINAL JUSTICE							
			For permission numbers and questions regarding the Undergraduate Criminal Justice Program, email Allan_Roscoe@uml.edu				
2927	44.390-021	Criminal Justice Research Methods	M/W	6:00-9:00 pm			Department Faculty
2930	44.395-021	Statistics in Criminal Justice	T/Th	6:00-9:00 pm	3		Angela Terrio
2932	44.398-021	Criminal Justice Data Analysis	T/Th	6:00-9:00 pm	3		Angela Terrio
2934	44.478-021	Child Maltreatment	M/W	1:00-4:00 pm	3		Edward Weeks
ECONOMICS							
2311	49.201-021	Economics I (Microeconomics)	M/W	6:00-9:00 pm	3	P: 90.111; BS/SS	Harjeet Khosla
2316	49.202-021	Economics II (Macroeconomics)	T/Th	6:00-9:00 pm	3	P: 90.111; BS/SS	Patricia Machado
2321	49.211-021	Statistics for Business and Economics I	T/Th	6:00-9:00 pm	3	P: 92.122 or equivalent; SS	Harjeet Khosla
ELECTRICAL ENGINEERING TECHNOLOGY							
2267	17.422-021	GPS: Principles and Applications	M/W	6:00-9:00 pm	3		Albert Paradis
ELECTRICAL AND COMPUTER ENGINEERING							
3013	16.216-021	ECE Application Programming	T/Th	2:00-5:00 pm	3	P: 25.108	Michael Geiger
3015	16.265-021	Logic Design	T/Th	9:00 am-12:00 pm	3	P: 25.108 or 91.102	Martin Margala
3016	16.317-021	Microprocessors Systems Design I	M/W	2:00-5:00 pm	3	P: 16.265, 16.365	Michael Geiger
3017	16.333-021	Chemistry and Engineering of Electronic Materials	M/W	9:00 am-12:00 pm	3	P: 92.132, 95,144; C: 16.365	Sam Mil'shtein
	16.426-021 NEW!	Power Systems Stability and Control	T/Th	5:00-8:00 pm	3		Mufeed Mah'd
3027	16.441-021 NEW!	Introduction to Biosensors	T/Th	6:00-9:00 pm	3	P: 16.365	Xingwei Wang
3032	16.482-021	Computer Architecture and Design	T/Th	1:00-4:00 pm	3		Martin Margala
ENGLISH							
2720	42.101-021	College Writing I	M/W	7:00-10:00 pm	3		Kevin Petersen
2724	42.102-021	College Writing II	T/Th	7:00-10:00 pm	3	P: 42.101	Patrick Lochelt
2784	42.212-021	The Short Story	M/W	7:00-10:00 pm	3	P: 42.102; AH	Madeline Sherlock
2801	42.341-021	Studies in Film	M/W	6:00-9:00 pm	3	P: 42.102; AH	Thomas Hersey
HEALTH							
3142	31.204-021	Introduction to Health Promotion	M-Th	10:00 am-12:00 pm	3		Rebecca Foco
2840	35.102-021	Human Anatomy and Physiology II	T/Th	6:00-9:15 pm	3	P: 35.101, 35.103 or equiv.; C: 35.104; SCL	Paul Fierimonte
2842	35.104-021	Human Anatomy and Physiology Lab II	T/W/Th	2:00-6:00 pm	1(3)	P: 35.101, 35.103; C: 35.102; SCL	Lyn Perreira
2843	35.104-022	Human Anatomy and Physiology Lab II	T/W/Th	11:00 am-2:00 pm	1(3)	P: 35.101, 35.103; C: 35.102; SCL	Karen Hammerstone
2844	35.211-021	Basic Clinical Microbiology and Pathology	M-Th	6:00-8:00 pm	3	P: Anatomy and Physiology	Sarah Zimmerman
2845	35.213-021	Basic Clinical Microbiology and Pathology Laboratory	M-Th	8:00-10:00 pm	1(3)	C: 35.211	Sarah Zimmerman
2847	35.252-021	Physiological Chemistry II Lecture	M/W	9:00 am-12:00 pm 1:00-3:00 pm	3	C:35.254	Javier Horta
2849	35.254-021	Physiological Chemistry II Laboratory	T/Th	9:00-12:00 pm	1(3)	C:35.252	Javier Horta/Aaron Stella
2287	38.305-021	Exercise Physiology I Lecture	M-Th	10:15 am-12:15 pm	4		Danielle Notini
HISTORY							
2275	43.105-021	Western Civilization I	M-Th	8:00-10:00 am	3	AHD	Andrew Drenas
2281	43.106-021	The Modern World	M-Th	12:30-2:30 pm	3		Leonid Blickstein
2288	43.112-021	United States History since 1877	T/Th	6:00-9:00 pm	3		Diane Lewis
2289	43.212-021 NEW!	Modern Latin America	M/W	6:00-9:00 pm	3		Lisa Edwards
2298	43.350-021	Colonial America: History and Culture	T/Th	6:00-9:00 pm	3		Robert Lemire
2309	43.393-021	History of the Middle East and Islamic World	T/Th	6:00-9:00 pm	3		Stephen Russell
LEGAL STUDIES AND PARALEGAL STUDIES							
2955	41.386-021	Intellectual Property	T/Th	6:00-9:00 pm	3		Nancy Aiken
2668	41.497-021	The Paralegal Practicum	TBA	TBA	3		Michael Jones
MANAGEMENT							
3228	62.496-021	Current Topics in Marketing: New Product Marketing	T/TH	6:00-9:00 pm	3	P: 62.201	Michael Salach
2902	66.210-021	Professional Communications	T/Th	6:00-9:00 pm	3	P: BA-BBA majors	Karen Hvizda
2905	66.415-021	Managing Teams and Projects	M/W	6:00-9:00 pm	3	P: 66.301, preference MG concentrators	Ralph Jordan
MATHEMATICS							
2344	92.120-021	Precalculus Mathematics I	M/W	6:30-9:30 pm	3	P: 90.111 or equivalent or satisfactory score on the Math Placement Exam given the first week of class; MA.	Candice Weston
2347	92.121-021	Management Precalculus	M-Th	8:00-10:00 am	3	P: 90.111 or equivalent; MA	Alan Kaplan
2350	92.122-021	Management Calculus	M-Th	10:15 am-12:15 pm	3	P: 90.119 or 92.120 or 92.121 or equivalent; not for science or engineering majors; MA	Alan Kaplan
2352	92.126-021	Calculus B	M/W	6:00-9:00 pm	3	P: 92.125; MA	Ronald Brent
2357	92.131-021	Calculus I	M-F	10:15 am-12:15 pm	4	MA	John Lahoud
2358	92.131-022	Calculus I	M-F	8:00-10:00 am	4	MA	John Lahoud
2362	92.132-021	Calculus II	M-F	10:15 am-12:15 pm	4	P: 92.131; MA	Ronald Brent
2363	92.132-022	Calculus II	M-F	10:15 am-12:15 pm	4	P: 92.131; MA	J. Peter Weston
2365	92.231-021	Calculus III	M-F	10:15 am-12:15 pm	4	P: 92.132; MA	Rida Mirie
2368	92.234-021	Differential Equations	T/Th	6:00-9:00 pm	3	P: 92.225 or 92.132	Rida Mirie

SUMMER II UNDERGRADUATE COURSES

ISIS Class No.	Course No.	Title	Days	Time	Cr (Con)	P: Prerequisite C: Corequisite/Comments	Instructor
2403	92.283-021	Introduction to Statistics	M-Th	8:00-10:00 am	3	P: 92.120 or equivalent; MA	Alexander Olsen
2404	92.283-022	Introduction to Statistics	M/W	7:00-10:00 pm	3	P: 92.120or equivalent; MA	Alexander Olsen
2409	92.321-021	Discrete Structures I	M/W	6:00-9:00 pm	3	P: 90.112 or 92.120	Anthony Penta
2417	92.385-021	Applied Statistics	M/W	6:00-9:00 pm	3	P: 92.132	Alexander Frye
2459	92.427-021	Geometry	T/Th	8:30-11:30 am	3	P: 92.221 or 92.321	Marvin Stick
2463	92.435-021	History of Mathematics	M/W	4:00-7:00 pm	3	P: 92.132	Matthew Beyranevand
*Fundamentals of Algebra (90.111) is a preparatory course and cannot be credited toward a degree program at the University of Massachusetts Lowell.							
**Credit is given for only one of the two following courses: 92.120 or 92.121. UML day students must have approval from their Department Chairperson before taking courses with a 90 prefix.							

MECHANICAL ENGINEERING							
2995	22.212-021	Strength of Materials	M-Th	8:00-10:00 am	3	P: 22.211, 92.132	Edward Hajduk
3080	22.213-021	Dynamics (alternate 14.205)	M/W/TH/F	2:45-4:45 pm	3		Daniel Sullivan
3064	22.302-021	Mechanical Engineering Laboratory I: Instrumentation	M-Th	2:45-5:30 pm	3(4)		Pawan Pingle
2998	22.311-021	Applied Strength of Materials	M-Th	12:30-2:30 pm	3	P: 22.212; C: 22.296	Department Faculty
3000	22.322-021	Mechanical Design II	M/W	6:00-9:00 pm	3(4)	P: 22.321	Konstantine Fetfatsidis
3001	22.341-021	Conduction and Radiation Heat Transfer	M-TH	10:15 am-12:15 pm	3	P: 22.242, 92.231, 92.236	Department Faculty
3006	22.425-021	Design of Machine Elements	M-Th	8:00-10:00 am	3		Robert Campbell
3007	22.441-021	Analysis of Thermo-Fluid Processes	M-Th	10:15 am-12:15 pm	3(4)	P: 22.342	Daniel Sullivan
3059	22.473-021	Design Theory and Constraints	M-Th	12:30-2:30 pm	3	P: 222.202, 22.302, 22.322	Robert Campbell
OPERATIONS AND INFORMATION SYSTEMS							
2467	63.210-021	Operations Analysis Techniques	M/W	6:00-8:50 pm	3	P: 49.211 or 92.183 or 92.283	Joshua Levy
2487	63.371-021	Operations Management	T/Th	6:00-8:50 pm	3	P: 63.210	Joshua Levy
PARALEGAL STUDIES			(See Legal Studies)				
PEACE AND CONFLICT STUDIES							
3100	PCS.455-021	NEW!Mediation: Theory and Practice	T/Th	6:00-9:00 pm	3		Seth Izen
PHILOSOPHY							
2637	45.201-021	Introduction to Philosophy	TBA	TBA	3	AHE	Whitley Kaufman
2639	45-202-021	Introduction to Logic and Critical Reasoning	M/W	6:00-9:00 pm	3		Christa Hodapp
2641	45.203-021	Introduction to Ethics	M/W	6:00-9:00 pm	3	ADE	Christa Hodapp
PHYSICS							
2531	95.104-021	General Physics II	M-F	8:00-10:00 am	3(4)	P: 95.103; C: 96.104	Chandrika Narayan
2609	95.141-021	Physics I	M-F	10:15 am-12:15 pm	3(4)	C: 92.131; 96.141; SCL	Nancy Sullivan
2611	95.144-021	Physics II	M-F	10:15 am-12:15 pm	3(4)	P: 95.141; C: 92.132, 96.144	Edward Salesky
2615	96.104-021	General Physics II Lab	T/Th	1:00-4:00 pm	1(2)	P: 96.103; C: 95.104 or 95.202	Department Faculty
2619	96.141-021	Physics I Lab	M/W	1:00-4:00 pm	1(2)	C: 95.141; SCL	Department Faculty
2622	96.144-021	Physics II Lab	T/Th	1:00-4:00 pm	1(2)	P: 96.141; C: 95.144	Department Faculty
2630	99.102-021	Radiation and Life Laboratory	M/W/F	3:30-5:30 pm	1(2)		Thomas Regan
PLASTICS							
3144	26.306-021	Methods of Experimental Analysis	M-TH	8:00-10:00 am	3		Ross Stacer
2829	27.453-021	Selected Topics III	M/W	7:00-10:00 pm	3		Department Faculty
2830	27.454-021	Selected Topics IV	T/Th	7:00-10:00 pm	3		Department Faculty
POLITICAL SCIENCE							
2703	46.101-021	Introduction to American Politics	T/Th	7:00-10:00 pm	3	SS	Gloria Polites
2706	46.110-021	Introduction to Politics	M-Th	10:15 am-12:15 pm	3		Gregory DeLaurier
2709	46.210-021	Media and Politics	M-Th	8:00-10:00 am	3		Jenifer Whitten-Woodring
2714	46.265-021	State and Local Politics	M/W	6:00-9:00 pm	3		Bernard Lynch
2719	46.344-021	American Presidency	M-Th	12:30-2:30 pm	3		Dennis Deeb
PSYCHOLOGY							
2729	47.101-021	General Psychology	M-Th	12:30-2:30 pm	3	SS	Krista Paduchowski
2745	47.278-021	Cognitive Psychology	M-Th	12:30-2:30 pm	3	P: 47.101	Yana Weinstein
2746	47.328-021	Dynamics of Interpersonal Relations	M/W	6:00-9:00 pm	3	P: 47.101, Junior or Senior level	Peter Hantzis
2756	47.475-021	Seminar: Clinical Psychology — Intervention	M/W	2:45-5:45 pm	3	P:47.101 and 47.269	Peter Hantzis
SOCIOLOGY							
2296	48.101-021	Introduction to Sociology	T/Th	7:00-10:00 pm	3	SSDE	Levon Chorbajian
2304	48.234-021	The Study of Minorities	M-Th	10:15 am-12:15 pm	3		Arturo Ramos Dalmau
2991	48.270-021	NEW!Self and Society	M-Th	8:00-10:00 am	3		Stephanie Laudone Jones
2322	48.276-021	Sociology of the Gun	M/W	7:00-10:00 pm	3		Christopher Cass
2651	48.361-021	Sociology of Law	T/Th	6:30-9:30 pm	3		Abhijit Das
2340	48.382-021	Social Movements	M-Th	10:15 am-12:15 pm	3	P: 48.101	Richard Hudak

Summer Session I

| Graduate Courses

| May 20-June 27

Except as noted: Classes begin on May 20.

M/W Classes begin on Monday, May 20 and include 3 FRIDAYS: May 24, June 7 and June 21 at the regularly scheduled hours.

T/Th Classes begin on Tuesday, May 21 and include 2 FRIDAYS: May 31 and June 14 at the regularly scheduled hours.

Students interested in applying into Graduate degree or certificate programs should contact the Graduate Admissions Office at 800-656-GRAD or www.uml.edu/grad. In some cases, a student may take only 6 credits prior to matriculating into a formal graduate degree program. Students with Bachelor’s degrees from accredited institutions are eligible to enroll as non-degree students for a total of 12 credits prior to matriculating into formal Graduate degree programs. Generally, students must formally apply to graduate certificate programs before enrolling in graduate courses intended for specific certificate programs.

Please check course numbers and prerequisites to ensure enrollment in the correct class.

ACCOUNTING							
2792	60.501-081	Financial Accounting	>Online Course		2	P: MBA/Business Certificate/Ph.D. Engineering students, or permission of MBA Coordinator	Sherre Strickland

SUMMER I GRADUATE COURSES

ISIS Class No.	Course No.	Title	Days	Time	Cr (Con)	P: Prerequisite C: Corequisite/Comments	Instructor
2793	60.601-011	Accounting Information for Management Decisions	T/Th	6:00-9:00 pm	3	P: Matriculated MBA Students, MBA Foundation Core, or permission of MBA Coordinator	George Joseph
2494	60.602-061	Advanced Management and Sustainability Accounting	>Online Course		3	P: 60.601, or permission of MBA Coordinator	George Joseph
NOTE: The above MBA courses are also open to non-UML grad students who meet course prerequisites. If not currently registered in a program, please contact the MBA Coordinator, Kathleen Rourke, at 978-934-2848 for permission to take courses.							

BIOLOGICAL SCIENCES

2833	81.521-011L	Biochemistry Techniques Laboratory	T/Th	1:00-5:00 pm	2(5)		Carol Myers
Students enrolling in O11L will automatically be enrolled in lecture below							
2832	81.521-011	Biochemistry Techniques	T/Th	10:30 am-12:00 pm	0		Carol Myers

CIVIL AND ENVIRONMENTAL ENGINEERING

3051	14.578-011	Biological Wastewater Treatment	T/Th	6:00-9:00 pm	3		Xiaoqi Zhang
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COMPUTER SCIENCE

(See also Information Technology)							
3174	94.517-031	NEW! Operating Systems Organization	Online Course	3		William Moloney	
	94.535-031	NEW! Agile and Iterative Project Management	Online Course	3		Deidra Zarrella	
3175	94.565-031	Cloud Computing	Online Course	3		Robert Bell	
94 prefix courses do not need permission of the Graduate Computer Science Coordinator							

CRIMINAL JUSTICE

3087	44.526-061	Domestic Terrorism and Hate Crimes	>Online Course	3	Allan Roscoe
2936	44.503-061	Administration of Criminal Justice	>Online Course	3	Christopher Harris
2937	44.521-061	Criminological Theory: Foundations	>Online Course	3	Lorenzo Boyd
2938	44.522-061	Victimology	>Online Course	3	Alison Cares
2939	44.542-061	Criminal Profiling	>Online Course	3	Allan Roscoe
2940	44.543-061	Forensic Psychology	>Online Course	3	Ira Packer
2941	44.545-061	Criminal Mind and Behavior	>Online Course	3	Alan Lincoln
2942	44.567-061	Overview of Homeland Security	>Online Course	3	Timothy Croft
2943	44.568-061	Contemporary Security Studies	>Online Course	3	James Forest
2944	44.570-061	Managing Criminal Justice Organizations	>Online Course	3	Richard Lumb
2945	44.575-061	Criminal Homicide	>Online Course	3	Paul Tracy
2946	44.580-061	Descriptive and Inferential Statistics	>Online Course	3	Donald Faggiani
2947	44.590-061	Research Design	>Online Course	3	Donald Faggiani
2949	44.622-061	Intimate Partner Violence	>Online Course	3	Eve Buzawa
2950	44.624-061	Violence in America	>Online Course	3	James Byrne
For permission numbers and questions regarding the Criminal Justice Program, please email Karen_Mullins@uml.edu.					

ECONOMIC AND SOCIAL DEVELOPMENT OF REGIONS AND PEACE AND CONFLICT STUDIES

2821	57.512-011	Community Conflict Resolution	T/Th	6:30-9:30 pm	3		David Turcotte/M. ZapataTurcotte
2818	PCS.512-011	Community Conflict Resolution	T/Th	6:00-9:00 pm	3		David Turcotte/M. ZapataTurcotte

EDUCATION

1034	01.502-051	Adolescent Development and Behavior	Tues	4:00-7:45 pm	3	M.Ed. IC only-Secondary	John Brown
1027	01.503-051	Child Development in a Diverse Society	Tues	9:00 am-12:45 pm	3		Joanna Barr
1002	01.630-061	Educating Diverse Populations	>Online Course		3		Minjeong Kim
1003	01.630-062	Educating Diverse Populations	>Online Course		3		Shanna Thompson
1004	01.632-061	The Inclusive School	>Online Course		3		Michaela Colombo
1029	02.524-051	Educational Assessments of Students with Moderate Disabilities	Mon	4:00-7:45 pm	3		Kristina Scott
1030	02.541-051	Teaching English Language Learners	Wed	4:00-7:45 pm	3		Heidi Perez
1028	02.543-051	Classroom Management and Integrative Techniques	Thurs	4:00-7:45 pm	3		Sheila Hornby
1031	04.512-011	History for History Teachers	M/Th	4:00-7:10 pm	3		Patricia Fontaine
1032	04.535-011	Mathematics for Teachers II	M/Th	4:00-7:10 pm	3		Roser Gine'
1005	04.635-061	Dynamics of Curricular Change	>Online Course		3		James Nehring
1006	04.637-061	History and Theory of Curriculum	>Online Course		3	**CI, EA	Judith Boccia
1007	04.638-061	Curriculum Design K-12	>Online Course		3	**CI, CI(sci)	J. Walsh/D. Troughton
1008	04.643-061	The Skillful Teacher	>Online Course		3	**CI, CI(sci)	Robert Gower
1009	04.676-061	Exploring the Nature of Science	>Online Course		3	**CI(sci)	Sumudu Lewis
1010	05.502-061	Issues, Mandates & Ethics/Special Education	>Online Course		3		Ellen O'Brien
1011	05.592-061	Practicum I: Elementary School Principal PK-6	>Online Course		1	P: Permission of instructor; **EA.	Jane Gilmore
1014	05.593-061	Practicum II: Elementary School Principal PK-6	>Online Course		1	P: Permission of instructor; **EA.	Jane Gilmore
1012	05.594-061	Practicum I: Middle School Principal 5-8	>Online Course		1	P: Permission of instructor; **EA.	Jane Gilmore
1015	05.595-061	Practicum II: Middle School Principal 5-8	>Online Course		2	P: Permission of instructor; **EA.	Jane Gilmore
1013	05.596-061	Practicum I: High School Principal 9-12	>Online Course		1	P: Permission of instructor; **EA	Jane Gilmore
1016	05.597-061	Practicum II: High School Principal 9-12	>Online Course		2	P: Permission of instructor; **EA	Jane Gilmore
1017	05.643-061	Principalship PK-12	>Online Course		3	**EA	Jane Gilmore
1018	06.511-061	Teaching Reading in the Content Area	>Online Course		3	**RL	John Brown
1019	06.522-061	Young Adult Literature	>Online Course		3	**RL	Lorraine Dagostino
1020	06.549-031	Theory and Research in Reading and Language	>Online Course		3		Lorraine Dagostino
1021	07.642-061	Program Evaluation	>Online Course		3	**EA, CI, RL	Jill Lohmeier
1033	08.654-051	Student Development & Leadership in Higher Education	Thurs	5:00-7:45 pm	3		Kerry Donohoe
(Blended course: Held online and on UML campus. Face-to-Face meetings on Thursdays)							
1023	81.508-061	Cell Biology for Teachers	>Online Course		3	**CI(sci); course participants will also be required to purchase a kit costing approximately \$35 as well as the textbook. Details for kit purchasing will be sent to course participants at the start of the summer session.	Mary Mawn
1024	85.581-061	Meteorology for Teachers	>Online Course		3	**CI(sci)	T. Vaughan/F. Colby
1025	95.501-061	Energy, Force, and Motion	>Online Course		3		Arthur Mittler

**The Graduate School of Education offers Online Courses leading to three Masters of Education degrees: (1) Educational Administration (EA); (2) Reading and Language (RL); Curriculum and Instruction (CI) or Curriculum and Instruction: Science Concentration (CI)(sci). The letters in the prerequisites column refer to which programs each course is aligned. Additionally, an Ed.S. Online in Curriculum and Instruction is offered.

ELECTRICAL AND COMPUTER ENGINEERING

3033	16.508-031	Quantum Electronics for Engineers	>Online Course		3	P: 16.363, 16.461; permission of instructor	Joel Therrien
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SUMMER I GRADUATE COURSES

ISIS Class No.	Course No.	Title	Days	Time	Cr (Con)	P: Prerequisite C: Corequisite/Comments	Instructor
3034	16.510-011	Digital Signal Processing	T/Th	6:00-9:00 pm	3		Mufeed Mah'd
3035	16.528-011	Alternate Energy Sources	M/W	5:00-8:00 pm	3	P: Permission of instructor	Ziyad Salameh
3036	16.529-011	Electric Vehicle Technology	T/Th	6:00-9:00 pm	3	P: Permission of instructor	Ziyad Salameh
3037	16.531-011	RF Design	T/Th	6:00-9:00 pm	3	P: Permission of instructor	Tenneti Rao
3039	16.552-011	Microprocessor Systems II and Embedded Systems	T/Th	2:00-5:00 pm	3		Yan Luo
3042	16.576-061	Principles of Solid State Devices	>Online Course		3	P: 16.365	Craig Armiento
3043	16.612-011	Converged Voice and Data Networks	M/W	6:00-9:00 pm	3		Oliver Ibe
3062	16.650-011	Advanced Computing Systems Hardware Architecture	T/Th	6:00-9:00 pm	3		Yan Luo
3044	16.666-011	Storage Area Networks	T/Th	6:00-9:00 pm	3	P: Permission of instructor	Oliver Ibe
HEALTH							
3159	32.502-041	Organizational Behavior in Healthcare (Blended Course: Online Sessions held on Wednesdays from 7:00-10:00 pm on 6/5, 6/19, 7/3, 7/17. Face to Face Meetings held at Winchester Hospital, McKay Ave, Winchester, MA on Wednesdays: 5/22, 5/29, 6/12, 6/26, 7/10, 7/24)	Wed	5:30-8:30 pm	3		Robert Holmes
3155	32.527-071	Planning and Marketing In Healthcare (Blended Course: Online Sessions held on Tuesdays from 7:00-10:00 pm on 5/28, 6/11, 7/2, 7/16. Face to Face Meetings held on UML campus on Tuesdays: 5/21, 6/4, 6/18, 6/25, 7/9, 7/23)	Tues	5:30-8:30 pm	3		A. James Lee
3152	32.607-041	Healthcare Information Systems (Blended Course: Online Sessions held on Tuesdays from 7:00-10:00 pm on 5/28, 6/18, 7/2, 7/9. Face to Face Meetings held at Yankee Alliance, 138 River Road, Andover, MA on Tuesdays: 5/21, 6/4, 6/11, 6/25, 7/16, 7/23)	Tues	5:30-8:30 pm	3		Patrick Grotton
3157	32.616-041	Law and Ethics in Healthcare (Blended Course: Online Sessions held on Wednesdays from 7:00-10:00 pm on 5/29, 6/12, 7/3, 7/17. Face to Face Meetings held at UML Inn & Conference Center, 50 Warren St., Lowell, MA on Wednesdays: 5/22, 6/5, 6/19, 6/26, 7/10, 7/24)	Wed	5:30-8:30 pm	3		Marc Guillemette
2957	33.686-031	Introduction to Clinical Dimensions of Sleep and Chronobiology	>Online Course		3		Stacia Sailer
2958	33.688-031	Clinical Assessment & Intervention in Sleep Dysregulation	>Online Course		3	P: or C: 33.687 or permission of instructor	Brett Kuhn
2841	34.650-091	Clinical Education Experience I	M-F	8:00 am-4:00 pm	3(4)	P: First-Year Physical Therapy Grad students only	Keith Hallbourg
2276	34.650-092	Clinical Education Experience I	M-F	8:00 am-4:00 pm	3(4)	P: First-Year Physical Therapy Grad students only	Michelle Fox
2279	34.652-091	Clinical Education Experience II	M-F	8:00 am-4:00 pm	3(4)	P: Clinical Ed. Experience I, second-year Physical Therapy graduate students only	Keith Hallbourg
2282	34.652-092	Clinical Education Experience II	M-F	8:00 am-4:00 pm	3(4)	P: Clinical Ed. Experience I, second-year Physical Therapy graduate students only	Michelle Fox
3128	36.580-031	Clinical Applications of Molecular Genetics	>Online Course		3		Theodore Namm
INFORMATION TECHNOLOGY			(See also Computer Science)		These courses do not need permission of the Graduate Computer Science Coordinator.		
3174	94.517-031	NEW! Operating Systems Organization ❖❖	Online Course		3		William Moloney
	94.535-031	NEW! Agile and Iterative Project Management ❖❖	Online Course		3		Deidra Zarrella
3175	94.565-031	❖❖ Cloud Computing	Online Course		3		Robert Bell
MANAGEMENT							
2888	61.501-081	Business Financial Analysis	>Online Course		2	P: MBA, Business Cert, or Doctor of Engineering majors; 60.501; or permission of MBA Coordinator	Yash Puri
2889	61.601-061	Corporate Finance	>Online Course		3	P: Matriculated MBA Students, MBA Foundation Core, or permission of MBA Coordinator	Ravi Jain
2891	61.691-061	International Finance	>Online Course		3	P: Matriculated MBA Students, MBA Foundation Core, or permission of MBA Coordinator	Devendra Prasad
2894	62.501-081	Marketing Fundamentals	>Online Course		2	P: MBA, Business Cert, or Doctor of Engineering majors; 60.501; or permission of MBA Coordinator	Joan Crooker
2895	61.735-061	Portfolio Investment and Security Analysis	>Online Course		3		Devendra Prasad
2898	62.601-061	Analysis of Customers and Markets	>Online Course		3	P: Matriculated MBA Students, MBA Foundation Core, or permission of MBA Coordinator	Eunsang Yoon
2897	62.688-061	Current Topics in Marketing: Sustainable Marketing	>Online Course		3	P: Matriculated MBA Students, MBA Foundation Core, or permission of MBA Coordinator	Eunsang Yoon
2899	64.650-061	Innovation and Emerging Technology	>Online Course		3	P: Matriculated MBA students, MBA Foundation Core, MSITE program, or PSM sub-plan, or permission of Graduate Program Coordinators.	Steven Tello
2900	64.655-061	Corporate Entrepreneurship	>Online Course		3	P: Matriculated MBA students, MBA Foundation Core, MSITE program, or PSM sub-plan, or permission of Graduate Program Coordinators.	Ashwin Mehta
2901	64.681-001	Practicum II - New Venture Implementation	TBA	TBA	3	P: MSITE program, or PSM sub-plan, or permission of Graduate Program Coordinators. Meets every other week.	Steven Tello
2908	66.501-081	Organizational Behavior	>Online Course		2	P: MBA, Business Cert, or Doctor of Engineering majors; or permission of MBA Coordinator	David Breyer
	66.511-081	Global Enterprise and Competition	>Online Course		2		Ashwin Mehta
2909	66.645-061	Advanced Professional Communication	>Online Course		3	P: Matriculated MBA students, MBA Foundation Core, MSITE program, or PSM sub-plan, or permission of Graduate Program Coordinators.	Teresa George
2910	66.655-011	Mid-Management Skills for the New Business Environment	T/Th	6:00-9:00 pm	3	P: Matriculated MBA students, MBA Foundation Core, or permission from MBA Coordinator	Timm Kainen
3092	66.688-011	Current Topics in Management: Leadership Processes	T/Th	6:00-9:00 pm	3	P: Open to professional MBA students only	Lauren Turner
2911	66.691-061	Strategy Formation and Implementation	>Online Course		3	P: 60.601, 61.601, 62.601, 63.671, 66.601; MBA matriculated students or permission from MBA Coordinator	Ashwin Mehta
2912	66.725-011	Negotiations	M/W	6:00-9:00 pm	3	P: Matriculated MBA students, MBA Foundation Core, or permission from MBA Coordinator	Timm Kainen
NOTE: The above MBA courses are also open to non-UML grad students who meet course prerequisites. If not currently registered in a program, please contact the MBA Coordinator, Kathleen Rourke, at 978-934-2848 for permission to take courses.							
MATHEMATICS							
2469	92.500-061	Discrete Structures	>Online Course		3		Alan Doerr
2471	92.509-001	Probability and Mathematical Statistics	Tues	6:00-9:00 pm	3		Joshua Levy
2475	92.510-011	Computers and Calculators in the Classroom	M/W	6:00-9:00 pm	3		Kenneth Levasseur
MECHANICAL ENGINEERING							
3008	22.515-001	Modal Analysis	Mon	6:00-9:00 pm	3		Peter Avitable
3076	22.576-061	Engineering Project Management	>Online Course		3		Sammy Shina

SUMMER I GRADUATE COURSES

ISIS Class No.	Course No.	Title	Days	Time	Cr (Con)	P: Prerequisite C: Corequisite/Comments	Instructor
OPERATIONS AND INFORMATION SYSTEMS							
2495	63.501-081	Operations Fundamentals	>Online Course		2	P: MBA , Business Certificate, Doctor of Engineering programs, or permission of MBA Coordinator	M. Riaz Khan
2817	63.601-011	Management Information Systems	Thurs	6:00-8:50 pm	3	P: Matriculated MBA Students, MBA Foundation Core, or permission of MBA Coordinator	Honguei Zhu
2497	63.601-061	Management Information Systems	>Online Course		3	P: Matriculated MBA Students, MBA Foundation Core, or permission of MBA Coordinator	Edward Chen
3067	63.601-062	Management Information Systems	>Online Course		3	P: Matriculated MBA Students, MBA Foundation Core, or permission of MBA Coordinator	Luvai Motiwalla
2504	63.671-061	Operations Management	>Online Course		3	P: Matriculated MBA students, MBA Foundation Core, or permission from MBA Coordinator	Asil Oztekin
2506	63.688-061	Current Topics in MIS: IT Project Management	>Online Course		3	P: Students with a CSCE or UGRD career need permission to take Graduate level courses Students who have taken in the past 66.635 are not allowed to enroll in 63.688	Edward Chen
PROFESSIONAL SCIENCE MASTER'S							
	PSM.555-031	NEW!Leadership for Scientists	>Online Course		3		Glen Mangurian/Jack Wilson
PSYCHOLOGY							
		Introduction to Behavioral Intervention in Autism	>Online Course		3	Coursework in the psychology of child development, or related experience	Alicia Perry
2759	47.561-032	Introduction to Behavioral Intervention in Autism	>Online Course		3	P: Coursework in the psychology of child development, or related experience	Richard Serna
2760	47.561-033	Introduction to Behavioral Intervention in Autism	>Online Course		3	P: Coursework in the psychology of child development, or related experience	Dena Shade-Monuteaux
2761	47.561-034	Introduction to Behavioral Intervention in Autism	>Online Course		3	P: Coursework in the psychology of child development, or related experience	Theodosia Paclawskyj
2762	47.561-035	Introduction to Behavioral Intervention in Autism	>Online Course		3	P: Coursework in the psychology of child development, or related experience	Jonathan Schmidt
2763	47.562-031	Teaching and Positive Behavioral Support in Autism	>Online Course		3	P: or C: 47.561	Jacqueline Potter
2764	47.562-032	Teaching and Positive Behavioral Support in Autism	>Online Course		3	P: or C: 47.561	Eric Boelter
2765	47.562-033	Teaching and Positive Behavioral Support in Autism	>Online Course		3	P: or C: 47.561	Lauren Beaulieu
2766	47.562-034	Teaching and Positive Behavioral Support in Autism	>Online Course		3	P: or C: 47.561	Lauren Beaulieu
2767	47.565-031	Measurement and Experimental Design in Behavioral Intervention	>Online Course		3	P: or C: 47.561	Peter Girolami
2768	47.565-032	Measurement and Experimental Design in Behavioral Intervention	>Online Course		3	P: or C: 47.561	Jessica Frieder
2769	47.565-033	Measurement and Experimental Design in Behavioral Intervention	>Online Course		3	P: or C: 47.561	Dawn Bailey
2770	47.566-031	Functional Analysis and Treatment of Challenging Behavior	>Online Course		3	P: 47.562	Stephanie Contrucci-Kuhn
2771	47.566-032	Functional Analysis and Treatment of Challenging Behavior	>Online Course		3	P: 47.562	Jessica Frieder
2772	47.566-033	Functional Analysis and Treatment of Challenging Behavior	>Online Course		3	P: 47.562	Natalie Rolider
2773	47.566-034	Functional Analysis and Treatment of Challenging Behavior	>Online Course		3	P: 47.562	Emily Shumate
2774	47.568-031	Behavioral Intervention Program Models in Autism	>Online Course		3	P: 47.562	Heidi Eilers
2775	47.568-032	Behavioral Intervention Program Models in Autism	>Online Course		3	P: 47.562	Karen Wagner
2776	47.568-033	Behavioral Intervention Program Models in Autism	>Online Course		3	P: 47.562	Dena Shade-Monuteaux
3085	47.568-034	Behavioral Intervention Program Models in Autism	>Online Course		3	P: 47.562	David Bicard
2777	47.572-031	NEW! Legal & Ethical Issues in Professional Practice	>Online Course		3	P: 47.565 or 47.566	David Kuhn
WORK ENVIRONMENT							
2822	19.559-011	Conflict Resolution	T/Th	6:30-9:30 pm	3		David Turcotte/M. ZapataTurcotte

Summer Session II | Graduate Courses | July 8-August 15

Except as noted: Classes begin on July 8.

M/W Classes begin on Monday, July 8 and include 2 FRIDAYS: July 19 and August 2 at the regularly scheduled hours.

T/Th Classes begin on Tuesday, July 9 and include 2 FRIDAYS: July 26 and August 9 at the regularly scheduled hours.

Please check course numbers and prerequisites to ensure enrollment in the correct class.

ELECTRICAL AND COMPUTER ENGINEERING							
	16.526-021	NEW! Power Systems Stability and Control	TBA	TBA	3		Mufeed Mah'd
3038	16.541-021	Introduction to Biosensors	T/Th	6:00-9:00 pm	3		Xingwei Wang
3040	16.560-021	Biomedical Instrumentation	T/Th	2:00-5:00 pm	3	P: Permission of instructor	Mufeed Mah'd
3041	16.561-021	Computer Architecture and Design	T/Th	1:00-4:00 pm	3		Martin Margala
3045	16.729-021	Renewable Energy Design	TBA	TBA			Ziyad Salameh
MANAGEMENT							
2890	61.610-021	Global Financial Markets and Monetary Policy	T/Th	6:00-9:00 pm	3		Michael Carter
MATHEMATICS							
2478	92.527-021	Geometry	T/Th	8:30-11:30 am	3	Applicable only to the Teacher Option	Marvin Stick
2493	92.535-021	History of Mathematics	M/W	4:00-7:00 pm	3		Matthew Beyranevand
OPERATIONS AND INFORMATION SYSTEMS							
2502	63.671-021	Operations Management	M/W	6:00-8:50 pm	3	P: Matriculated MBA students, MBA Foundation Core, or permission of MBA Coordinator	Keith Poirier
PEACE AND CONFLICT STUDIES							
2819	PCS.555-021	Mediation: Theory and Practice	T/Th	6:00-9:00 pm	3		Seth Izen

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- US News & World Report ranks UMass Lowell in the top 200 national research universities and the top 100 public universities nationally.
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- Payscale.com reported that UMass Lowell graduates command the highest mid-career salaries among public institutions in New England for two of the last three years.
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This program is a valuable credential for engineers and other professionals who are interested in the management side of operations, and non-operations mid-management professionals in the private and the public sectors who wish to advance to decision-making positions within their organizations. This 12 credit certificate is designed to meet the needs of mid-career professionals in non-operations positions, who require a greater understanding of operations to advance towards decision-making positions in their organizations, to communicate effectively with operations managers, to pursue new careers in industrial engineering or operations management, or to demonstrate the contribution of their unit and/or ideas to the organization's value chain.

Graduate students in the certificate program who are subsequently accepted into the UMass Lowell MBA program may apply certificate courses with grades of B or better to their MBA degree.

For more information, contact Dr. Yao Chen at 978-934-2764 or Yao_Chen@uml.edu

NEW!

Financial Management

The Graduate Certificate in Financial Management is designed to meet the needs of mid-career professionals in business and government. This five course (12-credit) certificate includes a combination of accounting and finance topics to prepare a non-financial manager to develop approaches that will help them contribute more effectively to strategic decision making.

Many mid-level managers in non-financial positions must effectively communicate the value of their ideas to senior management and demonstrate the value added to the bottom-line in financial terms. This requires understanding the investment necessary to commercialize the idea, recognizing the risk inherent in any new venture, projecting the returns expected, and using the established approaches in the field of finance to effectively articulate the value proposition to decision-makers within the organization. The Financial Management certificate will provide students with the skills necessary to achieve these goals.

For more information, contact Dr. Dev Prasad at Dev_Prasad@uml.edu or 978-934-2803.

Foundations of Business

(On-Campus or Online)

Do you want to sharpen your management skills? Are you interested in working toward your MBA? Do you have a technical, liberal arts, education, or other non-management degree? The Foundations of Business certificate program presents an excellent opportunity for people with non-business backgrounds to obtain a graduate business certificate. This program is comprised of six 2-credit courses and provides individuals with a non-business background an excellent foundation. Graduate students in the certificate program who are subsequently accepted into the UMass Lowell AACSB accredited MBA program may apply certificate courses with grades of B or better to their MBA degree.

For more information, contact Laura Christianson at 978-934-2853 or Laura_Christianson@uml.edu.

Security Studies

(Online)

This 12-credit certificate program addresses the increasing global and local concern involving security issues. Three courses are required along with one course with a focus on national security that can be related to a student's area of interest. Students can focus their studies in areas such as risk management and analysis; organizational and systems integration; legal and political policy and ethical issues in responding to threats; policy development and analysis; and the use of technology in implementing national security. The program is appropriate for students with a general interest in homeland security, professionals who are currently employed in security-related jobs, and for those interested in pursuing careers in security.

For more information, contact Paul Tracy at 978-934-4106 or CJGradAdvisor@uml.edu.

To see the full list of certificate programs available, visit www.uml.edu/grad.

*Online and off-campus course offerings are administered through Online and Continuing Education. Admission to a graduate certificate or graduate degree program is through the Office of Graduate Admissions.

NEW Graduate Degree Programs

Master of Science in Accounting

The Master of Science in Accounting (MSA) program at UMass Lowell provides an economically affordable opportunity for qualified students to meet the licensing requirements to become Certified Public Accountants (CPAs) or to prepare for an accounting career in the corporate, government or nonprofit environment. The MSA will prepare graduates to succeed in a competitive environment and a respected profession, one whose members continue to be in high demand from public accounting firms, financial institutions, industry, government agencies, municipalities, schools and hospitals, and charitable organizations.

This 30 credit program is open to either full-time or part-time students, and most courses are available online.

For more information contact, Professor Khondkar Karim, D.B.A., CPA, at Khondkar_Karim@uml.edu or 978-934-2831; or visit www.uml.edu/msa

Master of Education, Education Administration: Higher Education Option

The M.Ed., Education: Higher education Option focuses on policy and practice in Higher Education. Candidates complete 30 credits of coursework, with some courses offered on campus and some online, providing the flexibility for working professionals to complete the degree in a timely and convenient manner.

The program is open to individuals who have had substantial experiences in higher education work while undergraduates, or who are currently working in higher education.

For information about the program, contact Dr. Charmaine Hickey at Charmaine_Hickey@uml.edu or 978-934-4658.

NEW Master's Degrees in Security Studies – now accepting applications for Fall 2013

The Master's of Arts and Master's of Sciences in Security Studies are the only publically supported master's degree programs in security studies in New England. These 30-credit interdisciplinary programs address critical workforce needs by blending conceptual frameworks and analytical methods to promote learning and research in understanding and finding solutions to the crucial security challenges facing the nation and the world.

The MA emphasizes the policy, social science, behavioral science and legal dimensions of security studies, offering concentrations in international security, industrial and economic security and homeland defense.

The MS degree program emphasizes the intersection of security and applied technologies, engineering and hard sciences and offers concentrations in chemical, biological, radiological, nuclear, and explosives (CBRNE) security, cybersecurity, and critical infrastructure security.

Graduates of these programs may pursue a wide variety of careers in both the public and private sectors including, but not limited to, security analysts, strategy consultants, security program management, law enforcement, environmental protection, and immigration and customs protection and enforcement.

For more information contact James Forest at James_Forest@uml.edu or visit www.uml.edu/security-studies

Professional Science Master's Graduate Programs with Purpose

The innovative, non-thesis, two-year Professional Science Master's (PSM) graduate programs have been developed in conjunction with industry partners and are designed to increase career opportunities. Professional Science Master's programs enhance core competencies in disciplines with business fundamentals, communication and project leadership.

Career-Building Experience

Central to the PSM degree is real-world experience, which may be acquired in paid internships with industry, government or nonprofit organizations. In addition to the internships — which span a minimum of 350 hours over 3 to 6 months — students are required to participate in a one-credit reflective seminar, allowing them to learn from classmates' experience. The seminar may be conducted online, on campus or in a blended mode and will include written and oral presentations. Students working full-time while in a PSM program may use work experience in lieu of a separate internship.

Why should you consider a Professional Science Master's?

- Get relevant education and work experience
- Build an employer network
- Learn essential skills for workplace success
- Learn to think "out-of-the-box"
- Earn a highly competitive and interdisciplinary degree
- Become a graduate in high demand

Professional Science Master's Options offer advanced, non-thesis degree opportunities suitable for both recent graduates and industry professionals.

Programs may be completed on a full or part-time basis.

For more information about the Professional Science Master's Program, visit www.uml.edu/psm. To apply, go to www.uml.edu/grad.

PSM Plus courses are offered online and are available to PSM students from all four participating UMass campuses, as well as to non-matriculated students.

Courses offered summer 2013 are:

Leadership for Scientists

Learn from the experts! Management consultant Glenn Mangurian and UMass president emeritus Jack Wilson teach the knowledge and skills needed for effective leadership. The themes include: creating an inspirational vision, entrepreneurship, building trust, conflict resolution, personal integrity and ethics, and workplace issues. (3 credits)

To register, call the Division of Online and Continuing Education at 978-934-2474

Project Management for Science Professionals

This course is designed to provide skills to prepare students to take on the role of project manager. The importance of Project Management is now realized by many companies where the entire business, including routine activities, can be regarded as a series of projects. Students will learn project management principles which will provide a systematic approach to running both large and small businesses as well as a scientific laboratory. (3 credits)

Professional and Scientific Communication

Students will gain practical experience in effective communication skills by developing both written and oral communication within the context of their professional concentration. Assignments simulate those encountered in the "real-world" including persuasive presentations, oral and written reports, and communications with a variety of audiences including mainstream media and funding sources. The course will also employ newer technologies to enable students to explore the opportunities and constraints technology places on effective communication. (3 credits)



Professional Science Master's options are offered in the following:

Biological Sciences

- Applied Biotechnology
- Biosafety
- Environmental Biotechnology
- Project Management for Life Sciences

Biomedical Engineering & Biotechnology (Intercampus)

Chemistry

- Chemistry & Polymer Science
- Pharmaceutical Biochemistry

Clinical Laboratory & Nutritional Sciences

- Clinical Laboratory Sciences

Computer Science

- Entrepreneurship

Environmental Sciences

- Atmospheric Sciences
- Environmental Geoscience

Marine Sciences (Intercampus)

- Coastal and Ocean Administration, Science & Technology

Mathematical Sciences

- Industrial Mathematics

Physics & Applied Physics

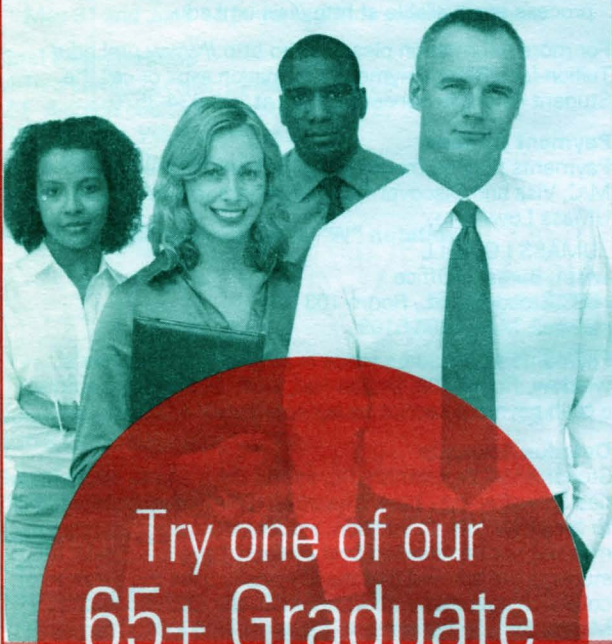
- Radiological Sciences & Protection

Work Environment

- Epidemiology
- Cleaner Production & Pollution Prevention
- Ergonomics & Safety
- Occupational & Environmental Hygiene

Are you Work Ready?

Do you need an advanced credential, but you're not ready for a degree program?



Try one of our
65+ Graduate
Certificates!

UMass Lowell Graduate Certificates are designed to provide knowledge and expertise vital to today's changing and complex work place. In most cases, courses may be applied toward a master's degree program. Most certificates consist of *four* courses (a total of 12 graduate credits). Graduate Certificates are a great way to start or continue your graduate study.

WHO CAN APPLY?

Holders of an appropriate bachelor's degree

HOW TO APPLY?

Apply online or download an application at www.uml.edu/grad

Application Fee is \$50.00 for all applicants

NO Graduate Record Exam (GRE) Required

TRANSFER CREDITS:

Credits earned from a graduate certificate may be used toward a related graduate degree with the approval of the graduate program coordinator. Students who complete a graduate certificate with a ≥ 3.5 GPA may be able to waive the GRE when applying to a related master's degree.

REQUIREMENTS TO COMPLETE A GRADUATE CERTIFICATE:

Certificate courses must be completed within a five year period with a minimum 3.0 grade point average and with not more than two courses with a grade below B. Courses completed for one certificate may not be used for other certificates.

See the full list of certificate program descriptions, including course details at www.uml.edu/grad.

Gainful Employment Disclosure Information

Completion rates, median loan debts and program costs are outlined for each certificate program and available in PDF format at: www.uml.edu/GEDI.

Financial Assistance for Graduate Students

Program: Federal Teach Grant

Criteria: Must be a U.S. citizen or eligible non-citizen; Maintain a cumulative GPA > 3.25 each semester; be enrolled in coursework or plan to complete coursework toward a career in teaching in a high need subject area (UMass Lowell eligible program); complete a TEACH Grant Counseling and sign a TEACH Grant Agreement each year. For additional information go to <http://www.uml.edu/financialaid/graduate/TEACH-Grant-Program.html>.

Amount: Up to \$4,000/year for two years

Program: Federal Professional Nurse Traineeship Grant Program

Criteria: Federally funded grant available to graduate nursing students. Contact the Nursing Department for additional information and application procedure.

Amount: Award amounts vary and are dependent upon funding

Program: Teaching and Research Assistantships

Criteria: Full-time, on-campus graduate students. All requests for teaching and research assistantships should be directed to the graduate coordinator or chairperson in a particular academic department.

There are a limited number of assistantships for qualified, full-time students and awards are extremely competitive.

Amount: Stipend for the academic year, plus a tuition and fee waiver as specified by the agreement between UMass Lowell and UAW/Graduate Employees Organization.

Federal Loan Programs:

- William D. Ford Federal Direct Unsubsidized Loan (Eligibility does not require demonstrated financial need)
- Federal Direct Grad PLUS Loan (Eligibility does not require demonstrated financial need)

Required for all loan programs: Graduate degree candidates enrolled in 6 credits are eligible to apply. Students must file a Free Application for Federal Student Aid (FAFSA).

For more information go to: www.uml.edu/financialaid

Note: Students completing online programs through Online and Continuing Education are not eligible. Awards are for the Fall and Spring semesters.

Special Savings Opportunities

New England Regional Student Program*

Applicants from other New England states may be eligible for a tuition rate equal to that of in-state tuition plus 50%. Students must meet the eligibility requirements for their state as well as the University, and must enroll in an approved regional program. Qualifying programs are those not offered on public campuses in a student's home state. For graduate programs eligible for the NERSP, please contact graduate admissions at 978-934-2390 or visit www.uml.edu/gradNERSP

Proximity Rate Program*

The Proximity Rate Program offers reduced tuition to Southern New Hampshire students living within 20 miles of the UMass Lowell campus. For additional information, please contact the Office of Graduate Admissions at 978-934-2390 or visit www.uml.edu/proximity

* Proximity and New England Regional Rates apply to Graduate Degree and Certificate Programs, **except** for courses offered through the Division of Online and Continuing Education.

To qualify you must be a citizen or permanent resident of the U.S.

Registration Options

1. Apply for a Graduate Degree Program

Students interested in applying for a Graduate degree should go to www.uml.edu/grad for a complete list of programs, application materials and requirements, faculty Program Coordinator information, and links to financial aid.

2. Apply for a Graduate Certificate

Graduate certificate programs are designed for students holding a baccalaureate degree in a field related to the certificate program. In most cases, graduate certificate course credit may be applied to a relevant master's degree program. Most certificates consist of four three-credit courses. The application fee is \$50, and **no graduate record exam (GRE) is required**. Students who complete a graduate certificate with a GPA of ≥ 3.5 and who later apply to a degree program within the same discipline may be able to waive the GRE.

For more information and to apply, go to www.uml.edu/gradcertificates.

3. Register for a course as a non-degree student

Individuals with a Bachelor's degree from an accredited institution may be eligible to enroll as a non-degree student for a total of 12 credits prior to formally matriculating into a Graduate degree or certificate Program. The non-degree registration form and complete instructions are available at www.uml.edu/forms.

UMass Lowell Office of Graduate Admissions

820 Broadway St., Lowell, MA 01854-5104
978-934-2390, or 800-656-GRAD
www.uml.edu/grad

GENERAL INFORMATION

General Information

See our Website at <http://continuinged.uml.edu> for detailed information.

You can also visit the Graduate Programs Website at www.uml.edu/grad

Registrar's Office Hours

Dugan Hall 101, UML South
Monday-Thursday: 8:30 am-7:00 pm
Friday: 8:30 am-5:00 pm

Division of Online and Continuing Education

Southwick 203, UML North
Monday-Thursday: 8:30 am-7:00 pm
Friday: 8:30 am-5:00 pm

Holiday Hours and Special Hours

May 27: Memorial Day (University closed)
July 4: Independence Day (University closed)

November 4, 2013: Last day for students to complete work for incomplete Spring and Summer 2013 semester courses.

Commencement: May 18, 2013

Phone Directory

Online and Continuing Education	(978) 934-2474
Bookstore — UML North	(978) 934-2623
Bookstore — UML South	(978) 934-4639
Faculty and Student Support Center	(978) 934-2474
Fax Number	(978) 934-4006
Registrar's Office	(978) 934-2550
Fax Number	(978) 934-4076
Graduate School of Education	(978) 934-4600
iSiS and email HELP Desk	(978) 934-4357
Library — UML North (Alumni/Lydon)	(978) 934-3205
Library — UML South (O'Leary)	(978) 934-4550
Student Financial Services	(978) 934-3570
UMass Lowell Main Number	(978) 934-4000
UMass Lowell Directions	(978) 934-5800
or www.uml.edu/maps	
Weather Cancellations	(978) 934-2121
Billing Information	(978) 934-3570

Academic Information

The University of Massachusetts Lowell is accredited by the New England Association of Schools and Colleges, which accredits schools and colleges in the six New England states. Membership in the Association indicates that the institution has been evaluated carefully and meets the standards agreed upon by qualified educators. The Bachelor degree programs in Electronic Engineering Technology and Mechanical Engineering Technology are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology. The Bachelor of Science in Business Administration (BSBA) is accredited by the AACSB — The International Association for Management Education.

Catalog

Students should refer to the Division of Online and Continuing Education catalog for rules, regulations, program outlines, and course descriptions. The catalog is available online at <http://continuinged.uml.edu>.

Admission into an Undergraduate Certificate or Degree Program

Students who have graduated from high school or who have earned a high school equivalency certificate are invited to apply for programs leading to a Certificate or an Associate's or Bachelor's degree. Please note: Students may apply to Bachelor's degree programs three years after completing their high school degrees. Applications for all programs are accepted on a rolling admissions basis. Please apply online at our website at <http://continuinged.uml.edu/apply.htm> for our degree and certificate programs. Please send all admissions materials to UML Admissions/Online and Continuing Education, c/o Sarah DeWitte, Admissions Office/Dugan Hall 110, 883 Broadway Street, Lowell, MA 01854-5104. Note, there is a \$60 application fee for admission into the undergraduate degree programs. There is no application fee for a certificate program.

Admission into a Graduate Certificate or Degree Program

Students interested in applying for Graduate degree or certificate programs should access the application on the Graduate Admissions website at: www.uml.edu/grad. For a complete list of requirements and Program Coordinators, go to: <http://www.uml.edu/grad/Overview.html>. Students with Bachelor's degrees from accredited institutions may be eligible to enroll as non-degree students prior to formally matriculating into a Graduate degree or certificate program. The non-degree form, including instructions, is available at: <http://www.uml.edu/admin/registrar/forms.html>

Undergraduate Degree Completion

Students who expect to complete their degree requirements in the 2012-2013 academic year must arrange for a graduation interview. To schedule an appointment, students may call the Division of Online and Continuing Education at 978-934-2474 or go to <http://continuinged.uml.edu> and use the online appointment scheduling service. Students who anticipate graduating at the end of the Summer 2013 semester must complete the process by June 27, 2013.

Undergraduate Certificate Completion

When a student completes the necessary courses for a certificate program, the student should complete and submit a Certificate Award Petition and exit survey to the

Division of Online and Continuing Education. See the Online and Continuing Education website under Miscellaneous Forms at <http://continuinged.uml.edu>

IMPORTANT: PLEASE NOTE: Students must have applied for admission into a certificate program before completing the certificate requirement and the Certificate Completion Form. Failure to do so may affect the awarding of the certificate date and/or receipt of the certificate award. Certificates are awarded three times a year: Spring, Summer and Fall.

Course Grades

Grades for the Spring and Summer semester will be available on iSiS, the Intercampus Student Information System.

Faculty & Student Support Information

Appointments with Faculty Program Coordinators

Students are encouraged to review their transcripts and their curriculum programs. Students may schedule appointments with Faculty Program Coordinators and Faculty and Student Support Specialists to discuss transcript issues, program degree requirements and other academic matters. See the front page of our website at <http://continuinged.uml.edu> to schedule an appointment with an advisor. The appointments may be held in person, online, by phone, or by Skype. Most appointments are held on UML North in the Faculty and Student Support Center. You may also email our Program Coordinators and Faculty Support Specialists.

Registration Information

See Academic Calendar on page 23 for appropriate registration deadlines.

iSiS (Intercampus Student Information System)

iSiS is the online software system UMass Lowell students, faculty and staff use to input and access all types of student information.

Assistance with iSiS:

Online web tutorials and video screen casts for all student self-service features can be accessed by clicking on the 'Information For' link, and selecting Student at <http://isis.uml.edu>.

New students to the University must use the mail, fax, or walk-in options to register.

Once the new student registration has been processed by the Registrar's Office, the student will receive an email to his/her personal email account (if provided) or receive a letter mailed to his/her home. The student should go to <http://isis.uml.edu> and click on the 'Login information' link.

Mail-In Registration:

Fill out the registration form and return it to:

1. University of Massachusetts Lowell
Registrar's Office
883 Broadway Street, Dugan 101
Lowell, MA 01854-5129
2. For classroom location and other scheduling information, please visit the Intercampus Student Information System (iSiS).

Fax-In Registration:

Fill out the registration form and fax it to (978) 934-4076.

Walk-In Registration is held at the Registrar's Office, currently located at 883 Broadway Street, Dugan Hall 101, UML South, Lowell, MA 01854-5129. The Registrar's office is moving to Salem Street in June. Please check their website for location.

Students are encouraged to use iSiS, the Web-Based Self-Service System whenever possible. Students taking online courses must obtain a UML email address as well as a log-on password.

Financial Information

Tuition is priced on the listed credit hour unless the contact hour is different. Tuition is then based on the listed contact hour. See information on Financial Aid and Scholarships on our website at <http://continuinged.uml.edu>.

Tuition and Fee Information	Per Credit Contact Hr.
Undergraduate Face-to-Face Tuition	\$330.00
Undergraduate Audit	\$330.00
Undergraduate Off-Campus Courses/Audit*	\$290.00 to \$360.00
Undergraduate Online Courses	\$360.00
Undergraduate Online Courses Audit	\$360.00
Graduate Online, On-Campus, and Off-Campus Courses and Audit (except M.B.A. Online and Education Courses)	\$535.00
Graduate Education Courses	\$465.00
M.B.A. Online Courses	\$585.00
Registration Fee per Term (non-refundable)	\$30.00
Late Fee for Non Payment	\$50.00
Fee for Undergraduate Degree application	\$60.00

Please note: Cost per credit includes access fee (parking and access to Blackboard).

***Note: Some tuitions may vary depending on customization and customer and program requirements.**

Please note: Graduate students will be assessed a "First-Year Student Services Fee" upon matriculation into a graduate degree or certificate program. Please see the Student Financial Services website at <http://www.uml.edu/Tuition-fees/> for more information. Students who have checks returned due to insufficient funds will be charged a \$30.00 insufficient funds fee.

Student Billing Goes Paperless:

- Paper bills are no longer being sent to students' permanent home addresses.
- Students now have access to view their bills online at <http://isis.uml.edu>.
- Students will receive an email notification to their UMass Lowell student email account (e.g., John_Doe@student.uml.edu) when a new bill has been generated.
- Job aids and e-learning tools that cover the new billing process are available at <http://isis.uml.edu>

For more information please go to <http://www.uml.edu/Tuition-fees/Billing-Payment-Information.aspx> or call the Student Financial Services Office at 978-934-3570.

Payment Options

Payments may be made by cash, check, money order, M/C, Visa and Discover. Mail payments (made payable to UMass Lowell) to:

UMASS LOWELL
Attn: Bursar's Office
883 Broadway St., Room 103
Lowell, MA 01854-5109

Payments may also be made in person at the cashier's window, Room 103, Dugan Hall, UML South. Please note, a cash payment cannot be accepted after 4:00 pm.

Overdue Accounts

Students will be permitted to attend class and to utilize facilities only after they have cleared all their financial obligations to the University. In addition, student transcripts and diplomas will not be released until all debts have been paid. All students are advised that the University uses the services of collection agencies authorized under the Commonwealth's Master Service Agreement. Students with a prior semester balance who are not enrolled for the current semester and are referred to a collection agency are held liable for all associated collection costs, which may be substantial.

Directed Studies

Directed Studies, Departmental exams, Practicums, Internships, Applied Music Lessons, etc. are considered Special Programs and, as such, tuition remission, waivers, and certificates of eligibility cannot be accepted.

NOTE: Veterans' Information

Veterans must be matriculated in an undergraduate degree program and have all appropriate paperwork on file at the Office of Veterans Services, 71 Wilder Street, Box#10, McGauvran Student Center, Room#353, Lowell. For additional information, please see the website at http://www.uml.edu/admin/registrar/veterans/veterans_tuition_waiver.html or call 978-934-2461 for detailed information. Veterans' waivers are available for on-campus undergraduate courses provided there is a sufficient number of tuition-paying students enrolled to bear the cost of instruction and provided there is space available. Due to the high cost of online, blended and off-campus courses, there are no waivers available for these courses. There are no waivers for Directed Studies, Departmental Exams, Practicums, and Internships. Merit and Need-Based Assistance Grants for online courses may be available to veterans who are presently enrolled in undergraduate degree and certificate programs and who are making satisfactory academic progress towards their degrees or certificates.

International Students

International students registering for the Division of Online and Continuing Education classes must provide proof of non-immigrant status. Please submit a copy of your current visa document (Form I-20, Form DS-2019, Form I-797, etc.), visa stamp and I-94 card, with your registration form. Students with F-1 or J-1 student status from an institution other than UMass Lowell are not permitted to be enrolled at UMass Lowell. F-1 and J-1 students from another academic institution must obtain the consent of their U.S. sponsoring institution should they wish to enroll in one course at UMass Lowell. Such consent will be reviewed by the International Students & Scholars Office at UMass Lowell. They will not be permitted to be full-time or degree seeking students at UMass Lowell while maintaining F-1 or J-1 student status from another academic institution. Students holding B-1 and B-2 status may not register for any academic classes. Students on F-2 status may not register for full-time classes or be enrolled in a degree program. The University of Massachusetts Lowell does not issue a student visa document (i.e., Form I-20 or Form DS-2019, etc.) to students for any Online and Continuing Education Programs. The ultimate responsibility to know and follow the U.S. Citizenship & Immigration Services (USCIS) regulations rests upon the students themselves. Please contact the International Students and Scholars Office at international@uml.edu with any questions.

Note: In registering for courses and/or accepting admission into the University, each student assumes responsibility for knowledge of and compliance with the definitions, regulations, and procedures of the University pertaining to his or her student status as set forth in the appropriate University of Massachusetts Lowell, Division of Online and Continuing Education website, publications, and catalog.

Third-Party Payment

All students using company direct payment, military plans, state tuition waivers, or veterans' waivers must mail original authorization forms to UMass Lowell, Student Financial Services Office, 883 Broadway Street, Room 101, Lowell, MA 01854-5110. Copies and/or faxes of tuition waivers cannot be honored. No tuition refund is awarded for late submission of eligibility form. Students receiving

Academic Calendar Summer 2013

The Division of Online and Continuing Education offers students a variety of scheduling options.

- 1. Ten-week Face-to-Face and Online classes meet from May 20 through July 27.
- 2. Twelve-week Face-to-Face and Online classes meet from May 20 through August 10.
- 3. A number of courses meet one day a week spanning May 20 through August 10.
- 4. Eight-week Face-to-Face and Online classes meet from May 20 through July 13.
- 5. Six-week Face-to-Face classes meet from May 20 through June 27 and July 8 through August 15.

Summer Session I

May 20-June 27, 2013
Face-to-Face Classes begin on Monday, May 20.
M/W classes include 3 FRIDAYS: May 24, June 7 and June 21 at the regularly scheduled hours.
T/Th classes begin on Tuesday, May 21 and include 2 FRIDAYS: May 31 and June 14 at the regularly scheduled hours.

Final Examinations

M-Th 3-credit courses: Tuesday, June 25
M-F 4-credit courses: Thursday, June 27
M/W Classes: Wednesday, June 26
T/Th Classes: Thursday, June 27

Summer Session II

July 8-August 15, 2013
Face-to-Face Classes begin on Monday, July 8.
M/W classes include 2 FRIDAYS: July 19 and August 2 at the regularly scheduled hours.
T/Th Evening classes begin on Tuesday, July 9 and include 2 FRIDAYS: July 26 and August 9 at the regularly scheduled hours.

Final Examinations

M-Th 3-credit courses: Monday, August 12
M-F 4-credit courses: Wednesday, August 14
M/W Evening Classes: Wednesday, August 14
T/Th Evening Classes: Thursday, August 15

Add/Drop & Withdrawal with "W" notation

	Add/Drop		Withdraw with "W" notation	
	Last day to add or drop Undergrad courses without a permission number	Last day to add or drop Grad course (Permission # required to add Undergrad course up to this date)	Undergraduate	Graduate
Summer I 5/20-6/27 (Section -01X and -04X)	5/24	6/3	6/13	6/20
Summer II 7/8-8/15 (Section -02X and -04X)	7/12	7/19	8/1	8/8
8-Week Courses 5/20-7/13 (Section -081)	5/24	6/3	6/13	7/5
Accelerated Online Courses (10-Week) 5/20-7/27 (Section -06X)	5/24	6/3	7/12	7/19
Accelerated Face to Face Courses (10-Week) 5/20-7/27 (Section -05X)	5/24	6/3	7/12	7/19
Full Term Online Courses (12 week) 5/20-8/10 (Section -03X)	5/24	6/3	7/26	8/2
Full Term Face to Face Courses (12 week) 5/20-8/15 (Section -00x and -09x)	5/24	6/3	7/26	8/2

Add/Drops can be processed in ISIS or Registrar's Office, UML South, Dugan Hall 101, 883 Broadway Street, Lowell.

Changes from credit to audit and audit to credit status are limited to this two-week period.

Students withdrawing from any class can do so by using ISIS, <http://isis.uml.edu>. Verbal messages to faculty and staff do not constitute official notification.

company reimbursement must prepay their own tuition. The University does not honor company reimbursement contingent upon grades.

NOTE: Senior Citizens

Senior citizens (60 years or older) who are Massachusetts residents may attend on campus classes in the Division of Online and Continuing Education credit programs tuition-free provided that there is a sufficient number of tuition-paying students enrolled to bear the cost of instruction and provided there is space available. **Please note that waivers are not retroactive and do not cover registration and other fees.** Proof of Massachusetts residency and birth date must be provided annually at the time of registration. There are no waivers available for online, blended and off-campus courses.

Refund Schedule for Tuition and Fees

Students who withdraw from the University or drop all of their courses during the add/drop period will receive a 100% adjustment to tuition and fees for the semester except for the following:

- 1) The Division of Online and Continuing Education \$30.00 non-refundable Registration Fee per term.
- 2) Students who are suspended or expelled for disciplinary reasons will forfeit all rights to a tuition and fee adjustment.
- 3) Any book voucher monies advanced to students and used at the bookstore. Students should contact the bookstore at (978) 934-2623 for the refund policy on books and materials purchased directly from them.
- 4) Residence hall charges and meal plan charges follow a different refund schedule. Students should contact the Residence Life Office at (978) 934-5115 for further assistance.

Please note: There are no adjustments to tuition and fee charges if students withdraw or drop classes after the add/drop period of the academic semester.

Student records will be cleared and appropriate refunds will be awarded only after outstanding University bills (library fines, parking fines, etc.) are paid and all University-owned property is returned. If debts remain unpaid, students' academic permanent records will not be released and students will not be readmitted to the University.

Health Insurance

All matriculating students enrolled in 9 or more credits will be charged for health insurance. Online courses are not considered eligible credits. Students who have comparable health insurance may apply on iSiS to waive the charge. Please see the Student Financial Services website and the Health Services website at www.uml.edu for additional information. Please note that all students who withdraw from or drop all of their classes within the first 31 days (calendar days) of the academic semester are not allowed to be enrolled in the University student health insurance plan. Students taking only online classes will **not** be eligible for the student insurance.

Financial Aid

Financial aid is available for students who qualify. For consideration, students must apply using the 2012-2013 Free Application for Federal Student Aid, available at

www.fafsa.ed.gov. Students must be matriculated in an eligible degree or certificate program and be enrolled in courses required for that program. Financial aid consists of any monetary assistance to students whose resources may not fully cover the costs of accessing a college education. Aid may consist of grants, loans, work programs, waivers, scholarships, reimbursement programs, and other financing arrangements. **Following the end of the add/drop period, financial aid is applied to student charges.** Students who withdraw from the university after receiving financial aid will be reviewed to determine the funds the student earned prior to withdrawing. Students who withdraw may be required to return some or all financial aid. For more information about financial aid eligibility, please go to www.uml.edu/financialaid/

Correct Social Security Number/
Tax Identification Number

The University of Massachusetts Lowell must obtain your correct social security number (SSN) to file certain information returns with the IRS as well as to furnish a statement to you. The returns the University must file contain information about qualified tuition and related expenses (Form 1098-T, Tuition Payments Statement). The information about your tuition will help to determine whether you, or the person who can claim you as a dependent, may take the Hope credit or Lifetime Learning credit to reduce the federal income tax.

For additional information on Financial policies and procedures, see www.uml.edu/Tuition-fees/

Email

A significant number of important communications will be delivered to students via University email. Information about the availability of class schedules, course cancellations, grade reports, and financial awards that can be accessed using iSiS, the Web-Based Self-Service, will be sent to students via email. UMass Lowell assigns UML email addresses to all students. Students should use their UML accounts with the @student.uml.edu suffix to ensure they receive important communications from the University. Please see <http://email.uml.edu> and check the student email link.

Wait Listing

You may now put yourself on a wait list through iSiS if the course you want is full. When you try to register for a closed course, the system will ask you if you want to be put on a wait list. The wait list function also allows you to list a course you would like to drop if you are allowed into the closed course. If space becomes available in a course, the wait list function will add you into the class in the order of your request. Please note that you will receive an email at your UML email address if you are put into the closed course. Check your schedule in iSiS to see if you are registered for the closed course. If you no longer wish to register for a course you are wait listed for, you must remove yourself from the wait list through iSiS. If you do not remove yourself from

the wait list, you run the risk of being registered for a course and will be responsible for the grade received as well as the tuition and fees incurred. First-time students may request to be put on the wait list by filling out the form located at: <http://www.uml.edu/admin/registrar/docs/waitlist.pdf> and faxing it to the number indicated.

Emergency Contact Information & Notification System

As increased concerns regarding security, safety and campus emergencies of all types affect University campuses nationwide, UMass Lowell has initiated a program that requires students to provide and/or verify Emergency Contact Information on a regular basis. This information is used to contact designated individuals in the event of an emergency involving the student while on campus or when an emergency notification alert to advise our community is released.

When you first log into iSiS this semester, you will notice an entry in "Your Holds Summary" indicating Emergency Contact Verification. This "Hold" will prevent all Registration/Add/Drop/ Swap a Class activity until you take action to verify your Emergency Contact Information. Release this hold by clicking on the hold and following the instructions. We encourage you to verify this information BEFORE you need to register for classes. For assistance, a help document has been posted on the iSiS website.

Emergency Notification

Sign up for the UML Emergency Notification System to get notified in the event of a campus emergency or crisis at <http://www.uml.edu/myalert>

UCards/Student ID Cards

All students may request a UCard, but for most OCE students a UCard is not needed. The UCard primarily works as a student ID and an access card, but benefits also include a debit feature that works at all on-campus dining locations, bookstores, and vending machines, as well as over 25 participating merchants in the Lowell area. OCE students that have classes in labs secured by card access are required to have a UCard. Your instructor will let you know if you need a UCard to access a particular lab.

Note: If you require a UCard, you will need to visit the UCAPS Office any time after you have registered for summer classes and after June 1 to have your photo taken and a UCard will be issued to you. UCards are good for life and the first card is free - if you require a replacement card the cost is \$20. Contact the UCAPS Office at (978) 934-2800 or email: UCAPS@uml.edu if you have any questions. UCAPS will be located in University Crossing on Salem Street beginning in late May, 2013.

What is UPrint?

UPrint is a green initiative that is aimed to reduce paper waste by eliminating unwanted and excess printing. If you are an OCE student and you do not have a UCard, you may purchase a UPrint Card at either the North or South Campus Library. To take advantage of a \$15 printing credit per semester, please follow the instructions at www.uml.edu/UCAPS.

Institutional Disclosure

The University is required to disclose the availability of various types of information related to Federal programs and mandates under the Higher Education Acts. This information is located on the UML web at: http://continuinged.uml.edu/general/inst_disclosure.htm

Students with Disabilities

Students with Disabilities who need classroom accommodations should register with Student Disability Services at Cumnock C4 978-934-4574 to access classroom accommodations. Students must provide documentation in accordance with the ADA as amended. Students are required to self identify with Student Disability Services to access services.

The University's Annual Campus Crime and Safety Report

Under the Regulations of the Safe and Drug-Free Schools and Communities Act and the Jeanne Clery Act (formerly the Campus Security Act), the University is required annually to distribute to all faculty, staff and students a copy of the Annual Crime Report and the University's Policies and Procedures related to alcohol, other drugs, and sexual assault. These regulations permit us to publish this report electronically, and the current report is available on the internet at http://www.uml.edu/police/crime_info/clery_act.html.

Bookstore Locations

UML North — Falmouth First Floor, (978) 934-2623
UML South — UML South Dining Hall, (978) 934-4639

Please call the Bookstore to confirm the location of your textbook. Students taking online courses can order books through the UMass Lowell Bookstore.

Every effort has been made to ensure the accuracy of the information presented in this bulletin. However, Online and Continuing Education (OCE) reserves the right to implement new rules and regulations and to make changes of any nature in its program, calendar, procedures and standards, degree requirements, and academic schedules (including, without limitations, changes in course content and class schedules), locations, tuition, and fees. Whenever possible, appropriate notice of such changes will be given before they become effective. When changes are necessary, Online and Continuing Education exerts reasonable efforts to provide comparable or substantially equivalent instructional services and facilities for those originally designated. However, OCE assumes no liability for failure to deliver or for delay in delivering such services (including those in support of academic functions or student life) when the causes for such failure or delay are beyond the reasonable control of Online and Continuing Education - which causes include, without limitation, the following: power failure, fire, accident, natural disaster, work slowdown and strikes, loss of personnel, and acts of public authorities. In registering for courses, each student assumes full responsibility for knowledge of and compliance with the definitions, regulations, and procedures for the University as set forth in the appropriate publications and bulletins.

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